

32" LCD TV/DVD

chassis FL11.11

SERVICE MANUAL

Contents

TYPE A

LD320SS2	SYLVANIA	(Serial No.: DS1)
32MD301B/F7	MAGNAVOX	(Serial No.: DS1)
32MD311B/F7	MAGNAVOX	(Serial No.: DS1)

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IMPORTANT SAFETY NOTICE

Proper service and repair is important to the safe, reliable operation of all Funai Equipment. The service procedures recommended by Funai and described in this service manual are effective methods of performing service operations. Some of these service special tools should be used when and as recommended.

It is important to note that this service manual contains various CAUTIONS and NOTICES which should be carefully read in order to minimize the risk of personal injury to service personnel. The possibility exists that improper service methods may damage the equipment. It also is important to understand that these CAUTIONS and NOTICES ARE NOT EXHAUSTIVE. Funai could not possibly know, evaluate and advice the service trade of all conceivable ways in which service might be done or of the possible hazardous consequences of each way. Consequently, Funai has not undertaken any such broad evaluation. Accordingly, a servicer who uses a service procedure or tool which is not recommended by Funai must first use all precautions thoroughly so that neither his safety nor the safe operation of the equipment will be jeopardized by the service method selected.

The LCD panel is manufactured to provide many years of useful life. Occasionally a few non active pixels may appear as a tiny spec of color. This is not to be considered a defect in the LCD screen.

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SPECIFICATIONS

< LCD TV Section >

< TUNER / NTSC >

ANT. Input ----- 75 Ω Unbal., F type

Description	Condition	Unit	Nominal	Limit
1. AFT Pull-In Range	---	MHz	± 2.3	± 2.1
2. Synchronizing Sens.	TV.ch.4	dB μ	18	20
	CA.ch.31	dB μ	18	20
	CA.ch.87	dB μ	18	23

< TUNER / ATSC >

Description	Condition	Unit	Nominal	Limit
1. Received Freq. Range (-28dBm)	---	kHz	---	± 100
2. ATSC Dynamic Range (min / max)	ch.4	dBm	---	-76/0
	ch.10	dBm	---	-76/0
	ch.41	dBm	---	-76/+4

< LCD PANEL >

Description	Condition	Unit	Nominal	Limit
1. Native Pixel Resolution	Horizontal	pixels	1366	---
	Vertical	pixels	768	---
2. Brightness (w / filter)	---	cd/m ²	310	---
3. Viewing Angle	Horizontal	°	-88 to 88	---
	Vertical	°	-88 to 88	---

< VIDEO >

Description	Condition	Unit	Nominal	Limit
1. Over Scan	Horizontal	%	5	5 $\pm$ 5
	Vertical	%	5	5 $\pm$ 5
2. Color Temperature	---	°K	12000	---
	x		0.272	$\pm 3\%$
	y		0.278	$\pm 3\%$
3. Resolution (composite video)	Horizontal	line	400	---
	Vertical	line	350	---

< AUDIO >

All items are measured across 8 Ω load at speaker output terminal with L.P.F.

Description	Condition	Unit	Nominal	Limit
1. Audio Output 10% Distortion (ATSC 0 dBfs)	Lch/Rch	W	10.0/10.0	9.0/9.0
2. Audio Distortion (NTSC)	500mW: Lch/Rch	%	0.5/0.5	2.0/2.0
3. Audio Freq. Response (NTSC)	-6dB: Lch	Hz	70 to 10 k	---
	-6dB: Rch	Hz	70 to 10 k	---

<DVD Section>

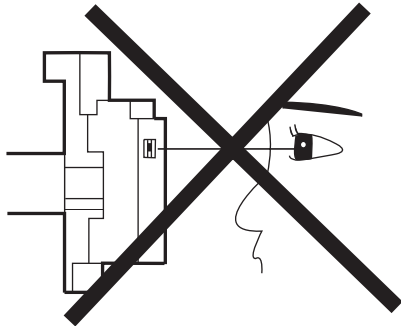
< DVD >

Description	Condition	Unit	Nominal	Limit
1. Horizontal Resolution (TDV-540 TIT.2 CHP.16)	---	Line	350	330
2. Audio Distortion (LPCM 48 kHz, W/LPF) (PTD 1-NOR TIT.1 CHP.1)	L R	%	0.03	0.07
3. Audio freq. response (LPCM 48 kHz) (PTD 1-NOR TIT.1 CHP.5 -- 10)	L, 20 Hz R, 20 Hz L, 20 kHz R, 20 kHz	dB	0	+4/-5
4. Audio S/N (LPCM 48 kHz, W/LPF, A-WTD) (PTD 1-NOR TIT.1 CHP.1 -- 2)	L R	dB	85	75

Note: Nominal specifications represent the design specifications. All units should be able to approximate these. Some will exceed and some may drop slightly below these specifications. Limit specifications represent the absolute worst condition that still might be considered acceptable. In no case should a unit fail to meet limit specifications.

LASER BEAM SAFETY PRECAUTIONS

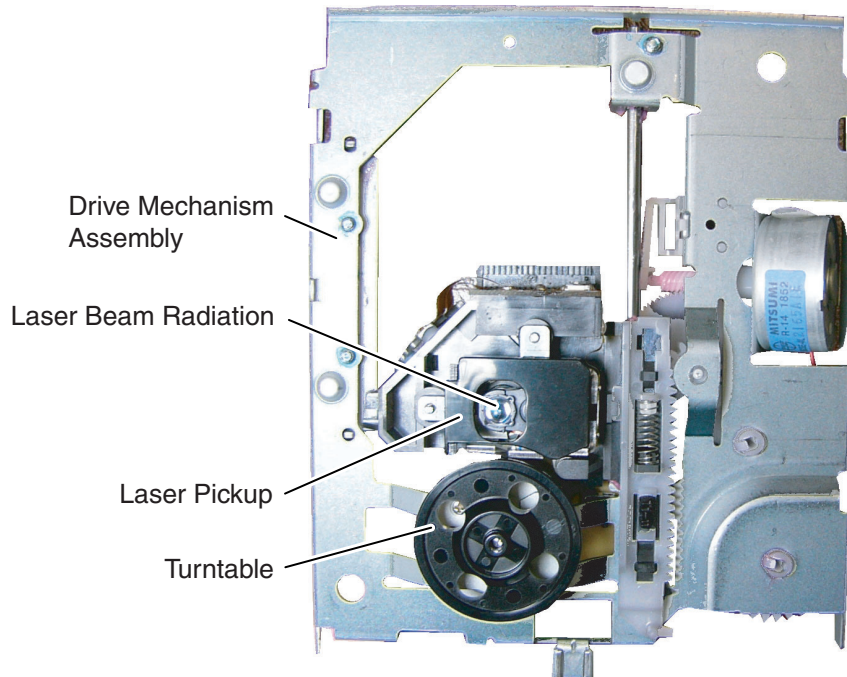
This DVD player uses a pickup that emits a laser beam.



Do not look directly at the laser beam coming from the pickup or allow it to strike against your skin.

The laser beam is emitted from the location shown in the figure. When checking the laser diode, be sure to keep your eyes at least 11.8 inches (30 cm) away from the pickup lens when the diode is turned on. Do not look directly at the laser beam.

CAUTION: Use of controls and adjustments, or doing procedures other than those specified herein, may result in hazardous radiation exposure.



CAUTION	VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN, DO NOT STARE INTO BEAM.
CAUTION	- CLASS 2 VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN, DO NOT STARE INTO THE BEAM.
ATTENTION	- CLASSEZ 2 RADIATION LASER VISIBLE ET INVISIBLE QUAND OUVERT, NE DÉVISEZ PAS DANS POUTRE.

Location: Top of LCD Module

IMPORTANT SAFETY PRECAUTIONS

Prior to shipment from the factory, our products are strictly inspected for recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

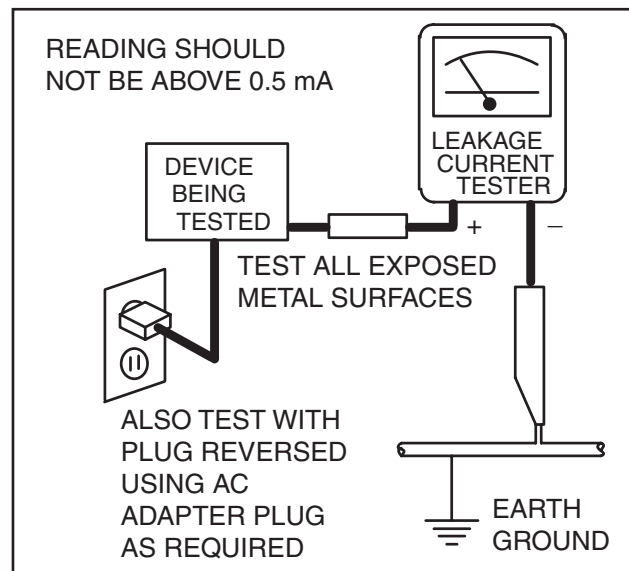
Safety Precautions for LCD TV Circuit

1. **Before returning an instrument to the customer**, always make a safety check of the entire instrument, including, but not limited to, the following items:

- a. Be sure that no built-in protective devices are defective and have been defeated during servicing. (1) Protective shields are provided on this chassis to protect both the technician and the customer. Correctly replace all missing protective shields, including any removed for servicing convenience. (2) When reinstalling the chassis and/or other assembly in the cabinet, be sure to put back in place all protective devices, including but not limited to, nonmetallic control knobs, insulating fishpapers, adjustment and compartment covers/shields, and isolation resistor/capacitor networks. **Do not operate this instrument or permit it to be operated without all protective devices correctly installed and functioning. Servicers who defeat safety features or fail to perform safety checks may be liable for any resulting damage.**
- b. Be sure that there are no cabinet openings through which an adult or child might be able to insert their fingers and contact a hazardous voltage. Such openings include, but are not limited to, (1) spacing between the Liquid Crystal Panel and the cabinet mask, (2) excessively wide cabinet ventilation slots, and (3) an improperly fitted and/or incorrectly secured cabinet back cover.

- c. **Antenna Cold Check** - With the instrument AC plug removed from any AC source, connect an electrical jumper across the two AC plug prongs. Place the instrument AC switch in the on position. Connect one lead of an ohmmeter to the AC plug prongs tied together and touch the other ohmmeter lead in turn to each tuner antenna input exposed terminal screw and, if applicable, to the coaxial connector. If the measured resistance is less than 1.0 megohm or greater than 5.2 megohm, an abnormality exists that must be corrected before the instrument is returned to the customer. Repeat this test with the instrument AC switch in the off position.

- d. **Leakage Current Hot Check** - With the instrument completely reassembled, plug the AC line cord directly into a 120 V AC outlet. (Do not use an isolation transformer during this test.) Use a leakage current tester or a metering system that complies with American National Standards Institute (ANSI) C101.1 Leakage Current for Appliances and Underwriters Laboratories (UL) 1410, (50.7). With the instrument AC switch first in the on position and then in the off position, measure from a known earth ground (metal water pipe, conduit, etc.) to all exposed metal parts of the instrument (antennas, handle brackets, metal cabinet, screw heads, metallic overlays, control shafts, etc.), especially any exposed metal parts that offer an electrical return path to the chassis. Any current measured must not exceed 0.5 milli-ampere. Reverse the instrument power cord plug in the outlet and repeat the test.



ANY MEASUREMENTS NOT WITHIN THE LIMITS SPECIFIED HEREIN INDICATE A POTENTIAL SHOCK HAZARD THAT MUST BE ELIMINATED BEFORE RETURNING THE INSTRUMENT TO THE CUSTOMER OR BEFORE CONNECTING THE ANTENNA OR ACCESSORIES.

2. Read and comply with all caution and safety-related notes on or inside the receiver cabinet, on the receiver chassis, or on the Liquid Crystal Panel.

3. **Design Alteration Warning** - Do not alter or add to the mechanical or electrical design of this TV receiver. Design alterations and additions, including, but not limited to circuit modifications and the addition of items such as auxiliary audio and/or video output connections, might alter the safety characteristics of this receiver and create a hazard to the user. Any design alterations or additions will void the manufacturer's warranty and may make you, the servicer, responsible for personal injury or property damage resulting therefrom.
4. **Hot Chassis Warning** -
 - a. Some TV receiver chassis are electrically connected directly to one conductor of the AC power cord and maybe safety-serviced without an isolation transformer only if the AC power plug is inserted so that the chassis is connected to the ground side of the AC power source. To confirm that the AC power plug is inserted correctly, with an AC voltmeter, measure between the chassis and a known earth ground. If a voltage reading in excess of 1.0 V is obtained, remove and reinsert the AC power plug in the opposite polarity and again measure the voltage potential between the chassis and a known earth ground.
 - b. Some TV receiver chassis normally have 85V AC(RMS) between chassis and earth ground regardless of the AC plug polarity. This chassis can be safety-serviced only with an isolation transformer inserted in the power line between the receiver and the AC power source, for both personnel and test equipment protection.
 - c. Some TV receiver chassis have a secondary ground system in addition to the main chassis ground. This secondary ground system is not isolated from the AC power line. The two ground systems are electrically separated by insulation material that must not be defeated or altered.
5. Observe original lead dress. Take extra care to assure correct lead dress in the following areas: a. near sharp edges, b. near thermally hot parts-be sure that leads and components do not touch thermally hot parts, c. the AC supply, d. high voltage, and, e. antenna wiring. Always inspect in all areas for pinched, out of place, or frayed wiring. Check AC power cord for damage.
6. Components, parts, and/or wiring that appear to have overheated or are otherwise damaged should be replaced with components, parts, or wiring that meet original specifications. Additionally, determine the cause of overheating and/or damage and, if necessary, take corrective action to remove any potential safety hazard.
7. **Product Safety Notice** - Some electrical and mechanical parts have special safety-related characteristics which are often not evident from visual inspection, nor can the protection they give necessarily be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified by a  on schematics and in parts lists. Use of a substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire, and/or other hazards. The product's safety is under review continuously and new instructions are issued whenever appropriate. Prior to shipment from the factory, our products are strictly inspected to confirm they comply with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

Precautions during Servicing

- A.** Parts identified by the **▲** symbol are critical for safety.
Replace only with part number specified.
- B.** In addition to safety, other parts and assemblies are specified for conformance with regulations applying to spurious radiation. These must also be replaced only with specified replacements.
Examples: RF converters, RF cables, noise blocking capacitors, and noise blocking filters, etc.
- C.** Use specified internal wiring. Note especially:
 - 1) Wires covered with PVC tubing
 - 2) Double insulated wires
 - 3) High voltage leads
- D.** Use specified insulating materials for hazardous live parts. Note especially:
 - 1) Insulation Tape
 - 2) PVC tubing
 - 3) Spacers
 - 4) Insulators for transistors.
- E.** When replacing AC primary side components (transformers, power cord, etc.), wrap ends of wires securely about the terminals before soldering.
- F.** Observe that the wires do not contact heat producing parts (heat sinks, oxide metal film resistors, fusible resistors, etc.)
- G.** Check that replaced wires do not contact sharp edged or pointed parts.
- H.** When a power cord has been replaced, check that 11~13 lb (5~6 kg) of force in any direction will not loosen it.
- I.** Also check areas surrounding repaired locations.
- J.** Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.
- K.** When connecting or disconnecting the internal connectors, first, disconnect the AC plug from the AC supply outlet.
- L.** When installing parts or assembling the cabinet parts, be sure to use the proper screws and tighten certainly.

Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions. Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

1. Clearance Distance

When replacing primary circuit components, confirm specified clearance distance (d) and (d') between soldered terminals, and between terminals and surrounding metallic parts. (See Fig. 1)

Table 1: Ratings for selected area

AC Line Voltage	Region	Clearance Distance (d), (d')
110 to 130 V	U.S.A. or Canada	≥ 3.2 mm (0.126 inches)

Note: This table is unofficial and for reference only. Be sure to confirm the precise values.

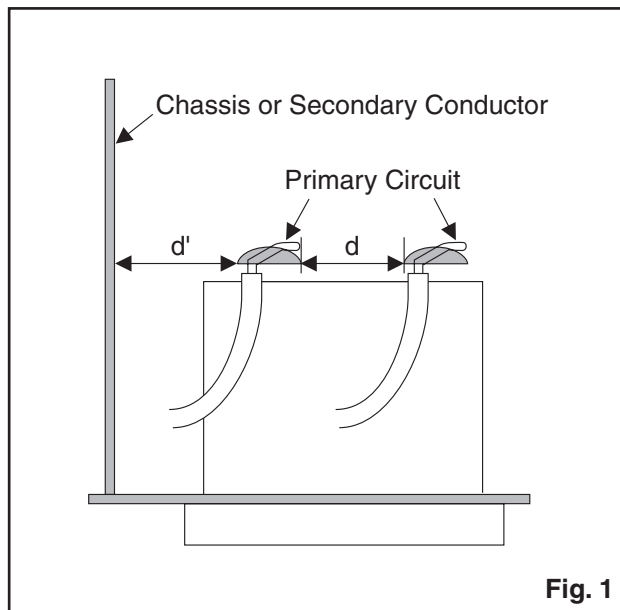


Fig. 1

2. Leakage Current Test

Confirm the specified (or lower) leakage current between B (earth ground, power cord plug prongs) and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.) is lower than or equal to the specified value in the table below.

Measuring Method: (Power ON)

Insert load Z between B (earth ground, power cord plug prongs) and exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See Fig. 2 and following table.

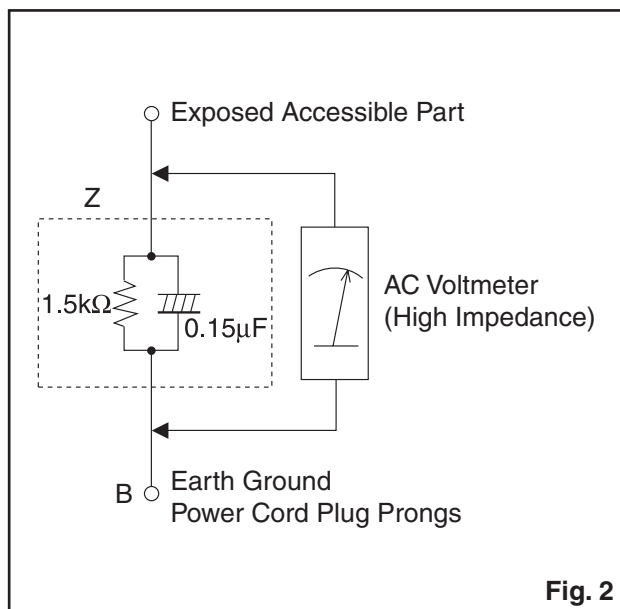


Fig. 2

Table 2: Leakage current ratings for selected areas

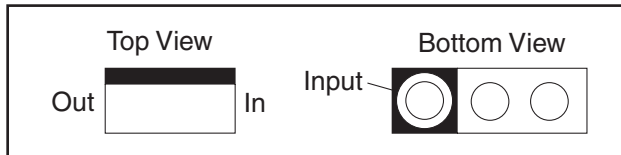
AC Line Voltage	Region	Load Z	Leakage Current (i)	Earth Ground (B) to:
110 to 130 V	U.S.A. or Canada	$0.15\mu\text{F}$ CAP. & $1.5\text{k}\Omega$ RES. Connected in parallel	$i \leq 0.5$ mA rms	Exposed accessible parts

Note: This table is unofficial and for reference only. Be sure to confirm the precise values.

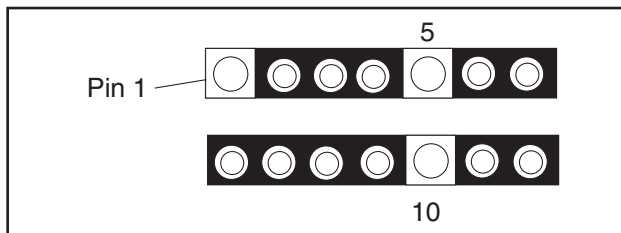
STANDARD NOTES FOR SERVICING

Circuit Board Indications

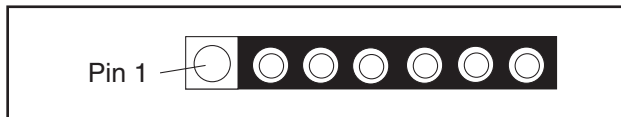
1. The output pin of the 3 pin Regulator ICs is indicated as shown.



2. For other ICs, pin 1 and every fifth pin are indicated as shown.

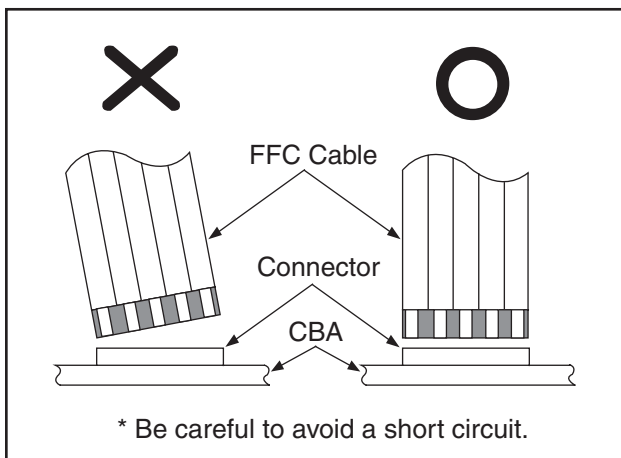


3. The 1st pin of every male connector is indicated as shown.



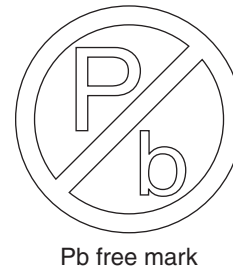
Instructions for Connectors

1. When you connect or disconnect the FFC (Flexible Foil Connector) cable, be sure to first disconnect the AC cord.
2. FFC (Flexible Foil Connector) cable should be inserted parallel into the connector, not at an angle.



Pb (Lead) Free Solder

Pb free mark will be found on PCBs which use Pb free solder. (Refer to figure.) For PCBs with Pb free mark, be sure to use Pb free solder. For PCBs without Pb free mark, use standard solder.



Pb free mark

How to Remove / Install Flat Pack-IC

1. Removal

With Hot-Air Flat Pack-IC Desoldering Machine:

1. Prepare the hot-air flat pack-IC desoldering machine, then apply hot air to the Flat Pack-IC (about 5 to 6 seconds). (Fig. S-1-1)

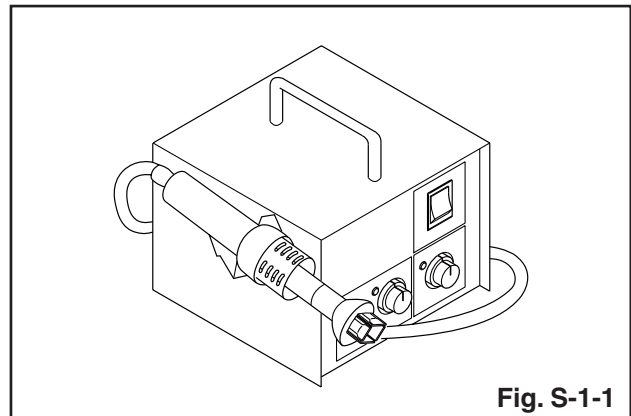


Fig. S-1-1

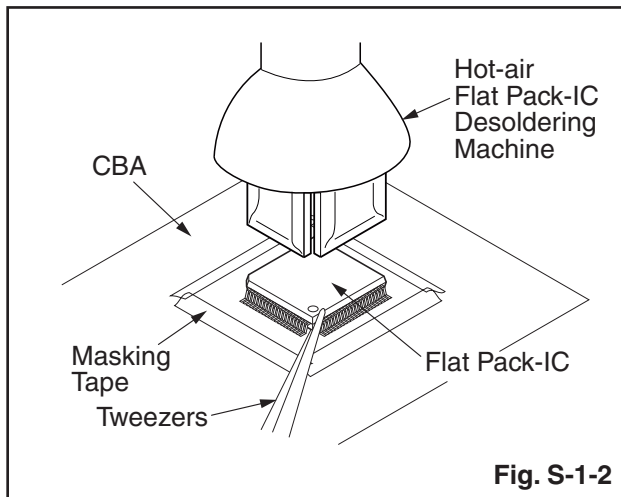
2. Remove the flat pack-IC with tweezers while applying the hot air.
3. Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
4. Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

CAUTION:

1. The Flat Pack-IC shape may differ by models. Use an appropriate hot-air flat pack-IC desoldering machine, whose shape matches that of the Flat Pack-IC.
2. Do not supply hot air to the chip parts around the flat pack-IC for over 6 seconds because damage to the chip parts may occur. Put masking tape

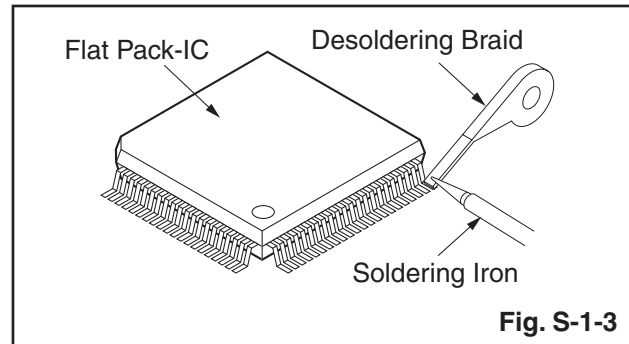
around the flat pack-IC to protect other parts from damage. (Fig. S-1-2)

3. The flat pack-IC on the CBA is affixed with glue, so be careful not to break or damage the foil of each pin or the solder lands under the IC when removing it.

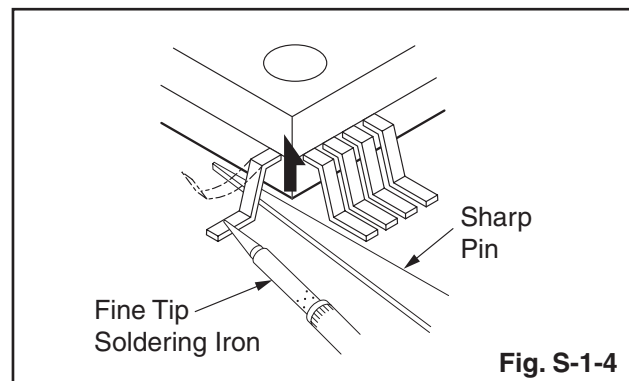


With Soldering Iron:

1. Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)



2. Lift each lead of the flat pack-IC upward one by one, using a sharp pin or wire to which solder will not adhere (iron wire). When heating the pins, use a fine tip soldering iron or a hot air desoldering machine. (Fig. S-1-4)

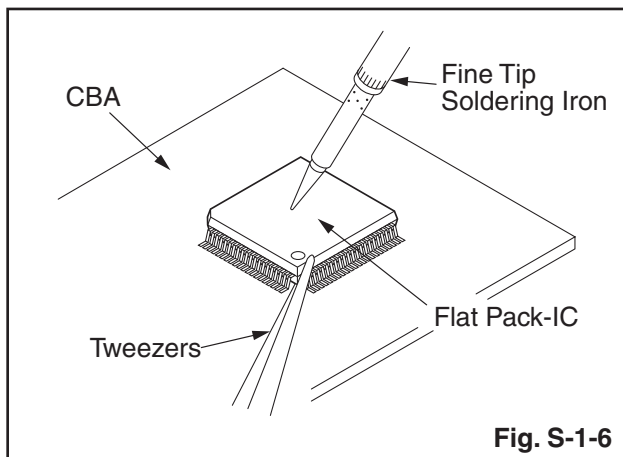
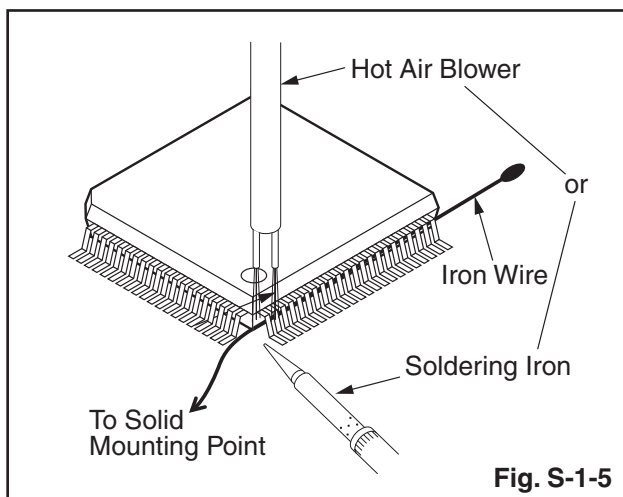


3. Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
4. Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

With Iron Wire:

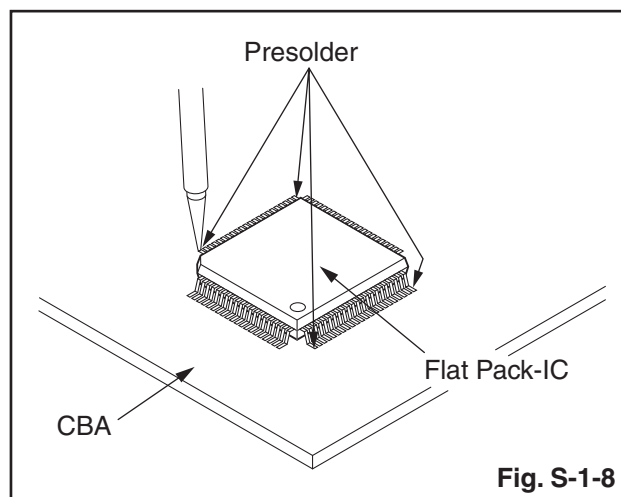
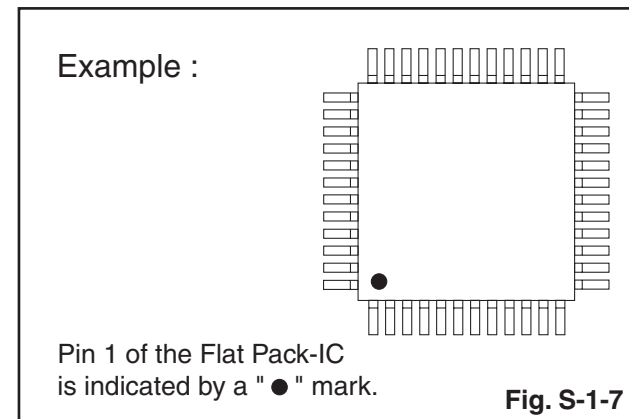
1. Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)
2. Affix the wire to a workbench or solid mounting point, as shown in Fig. S-1-5.
3. While heating the pins using a fine tip soldering iron or hot air blower, pull up the wire as the solder melts so as to lift the IC leads from the CBA contact pads as shown in Fig. S-1-5.
4. Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
5. Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

Note: When using a soldering iron, care must be taken to ensure that the flat pack-IC is not being held by glue. When the flat pack-IC is removed from the CBA, handle it gently because it may be damaged if force is applied.



2. Installation

1. Using desoldering braid, remove the solder from the foil of each pin of the flat pack-IC on the CBA so you can install a replacement flat pack-IC more easily.
2. The "●" mark on the flat pack-IC indicates pin 1. (See Fig. S-1-7.) Be sure this mark matches the pin 1 on the PCB when positioning for installation. Then presolder the four corners of the flat pack-IC. (See Fig. S-1-8.)
3. Solder all pins of the flat pack-IC. Be sure that none of the pins have solder bridges.



Instructions for Handling Semi-conductors

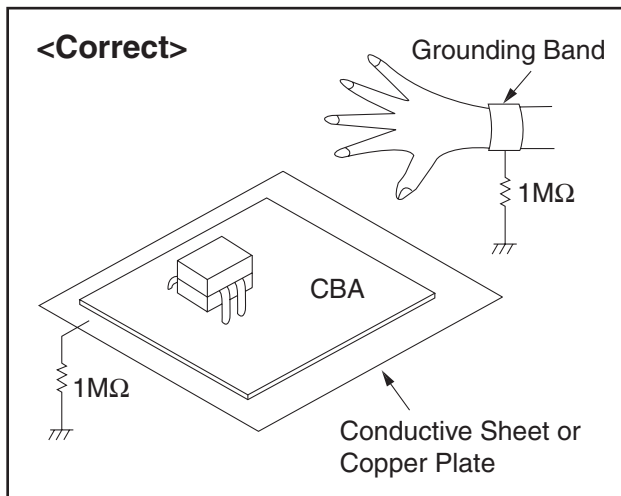
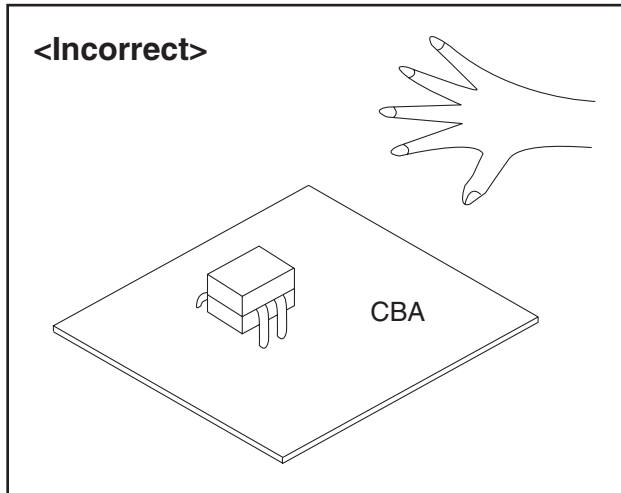
Electrostatic breakdown of the semi-conductors may occur due to a potential difference caused by electrostatic charge during unpacking or repair work.

1. Ground for Human Body

Be sure to wear a grounding band ($1\text{ M}\Omega$) that is properly grounded to remove any static electricity that may be charged on the body.

2. Ground for Workbench

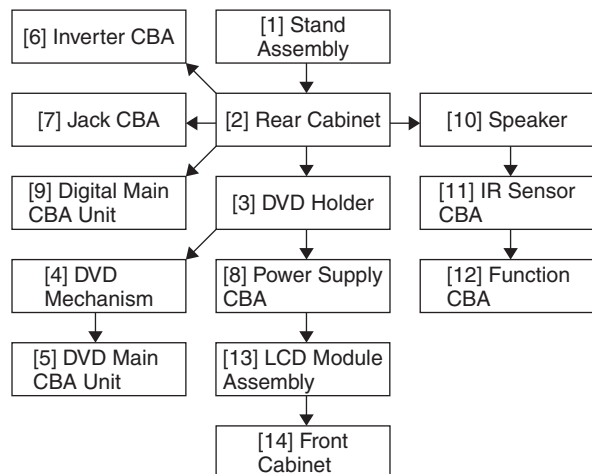
Be sure to place a conductive sheet or copper plate with proper grounding ($1\text{ M}\Omega$) on the workbench or other surface, where the semi-conductors are to be placed. Because the static electricity charge on clothing will not escape through the body grounding band, be careful to avoid contacting semi-conductors with your clothing.



CABINET DISASSEMBLY INSTRUCTIONS

1. Disassembly Flowchart

This flowchart indicates the disassembly steps for the cabinet parts, and the CBA in order to gain access to items to be serviced. When reassembling, follow the steps in reverse order. Bend, route and dress the cables as they were.



2. Disassembly Method

Step/ Loc. No.	Part	Fig. No.	Removal	Note
[1]	Stand Assembly	D1	4(S-1)	---
[2]	Rear Cabinet	D1	13(S-2), 2(S-3), 3(S-4)	---
[3]	DVD Holder	D2 D5	4(S-5), 4(S-6), CN901, CN902	---
[4]	DVD Mechanism	D2 D5	(S-7a), 2(S-7b)* ¹ , CN201, CN301, CN801	1 2 3 4 5 6
[5]	DVD Main CBA Unit	D2 D5	-----	---
[6]	Inverter CBA	D3 D5	6(S-8), CN1001, CN1003, CN1050, CN1100, CN1150, CN1200, CN1900	---
[7]	Jack CBA	D3 D5	2(S-9), CL701B	---
[8]	Power Supply CBA	D3 D5	7(S-10), CN101, CN301, CN302, CN303, CN801, CN802	---

Step/ Loc. No.	Part	Fig. No.	Removal	Note
[9]	Digital Main CBA Unit	D3 D5	3(S-11), 8(S-12), CN3005, Shield Box, Jack Holder	---
[10]	Speaker	D4	8(S-13), Hook, Speaker Holder(L, R)	---
[11]	IR Sensor CBA	D4 D5	2(S-14), CL103C	---
[12]	Function CBA	D4 D5	3(S-15), LED Lens ^{*2} , Function Knob ^{*2} , Shield Plate ^{*2}	---
[13]	LCD Module Assembly	D4	(S-16)	---
[14]	Front Cabinet	D4	-----	---
↓ (1)	↓ (2)	↓ (3)	↓ (4)	↓ (5)

*1: Refer to the following "Reference Notes in the Table."

*2: 32MD311B/F7

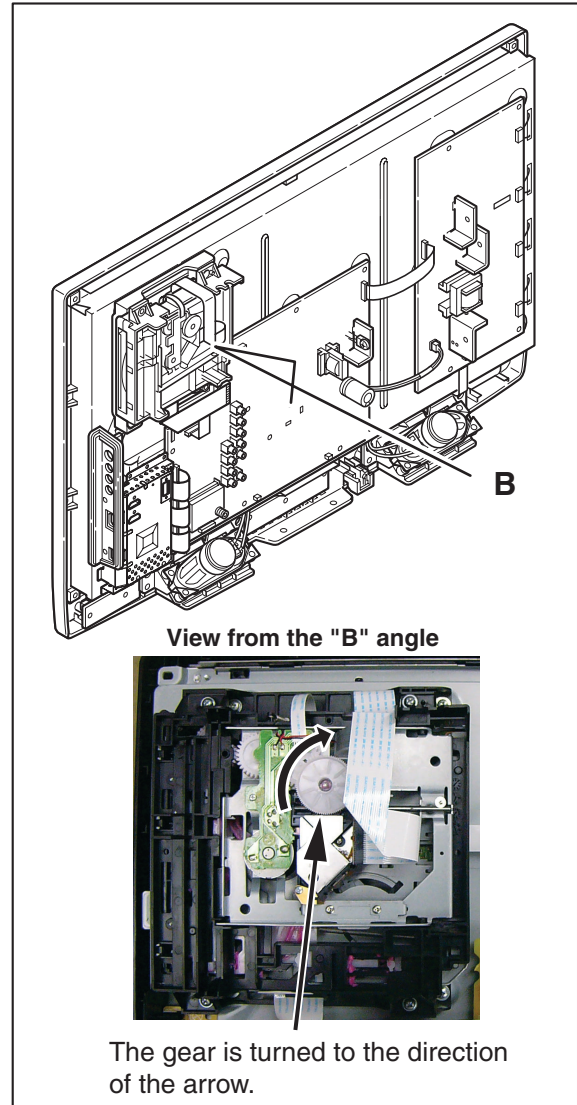
Note:

- Order of steps in procedure. When reassembling, follow the steps in reverse order. These numbers are also used as the Identification (location) No. of parts in figures.
- Parts to be removed or installed.
- Fig. No. showing procedure of part location
- Identification of parts to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered.
P = Spring, L = Locking Tab, S = Screw, H = Hex Screw, CN = Connector
e.g. 2(S-2) = two Screws of (S-2),
2(L-2) = two Locking Tabs of (L-2)
- Refer to the following "Reference Notes in the Table."

Reference Notes

1. **CAUTION 1:** Electrostatic breakdown of the laser diode in the optical system block may occur as a potential difference caused by electrostatic charge accumulated on cloth, human body etc., during unpacking or repair work.
To avoid damage of pickup follow next procedures.
 - 1) Short-circuit the three short lands of FPC cable with solder before removing the FFC cable (CN201). If you disconnect the FFC cable (CN201) before short-circuiting the three short lands of FPC cable, the laser diode of pickup will be destroyed. (Fig. D2)
 - 2) Disconnect the connectors (CN301 and CN801). Remove the screw (S-7a) and remove the DVD Main CBA Unit. (Fig. D2)
2. **Reassembly Notes of New DVD Mechanism:**
 - a. To remove the Chassis Cover, remove the two screws (S-7b) as shown in Fig. D2.
 - b. To avoid damaging the pickup unit (laser diode), confirm that the three short lands (either of two places) are short-circuited by soldering as shown in Fig. D2.
 - c. Connect the FFC cables of the new DVD Mechanism to the three connectors (CN201, CN301, CN801) on the DVD Main CBA Unit.
 - d. After confirming that the FFC cables are securely connected to the three connectors, remove the solder from the three short lands. If the solder is not removed, the laser diode will not light and it will not be possible to read discs.
 - e. Insert the Pin on the Chassis Cover into the Hole on the Main Chassis as shown in Fig. D2. Then tighten the two screws (S-7b) to install the Chassis Cover.
3. **CAUTION 2:** When reassembling, confirm the FFC cable (CN201) is connected completely. Then remove the solder from the three short lands of FPC cable. (Fig. D2)
4. **How to eject a disc in emergency**
Press and hold [EJECT] on the unit for more than 5 seconds.
5. **How to eject manually 1**
 - 1) Remove the Rear Cabinet.

- 2) Rotate the gear in the direction of the arrow as shown below.



6. **How to eject manually 2**
 - 1) Remove the Rear Cabinet.
 - 2) To remove the DVD Main CBA Unit, remove the screw (S-7a) in Fig. D2. Do not disconnect connectors.
 - 3) To remove the Chassis Cover, remove the two screws (S-7b) as shown in Fig. D2.
 - 4) Remove a disc.

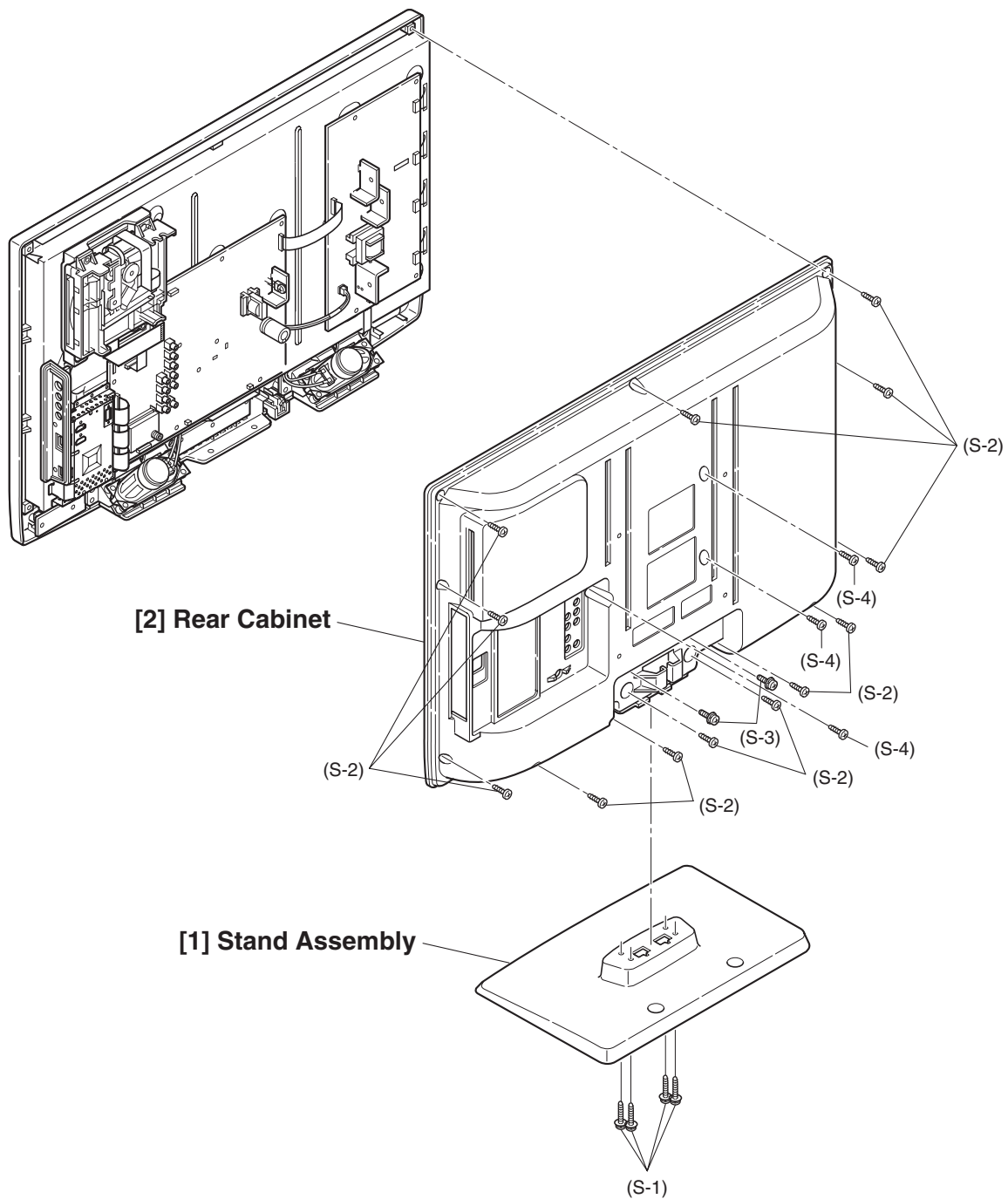
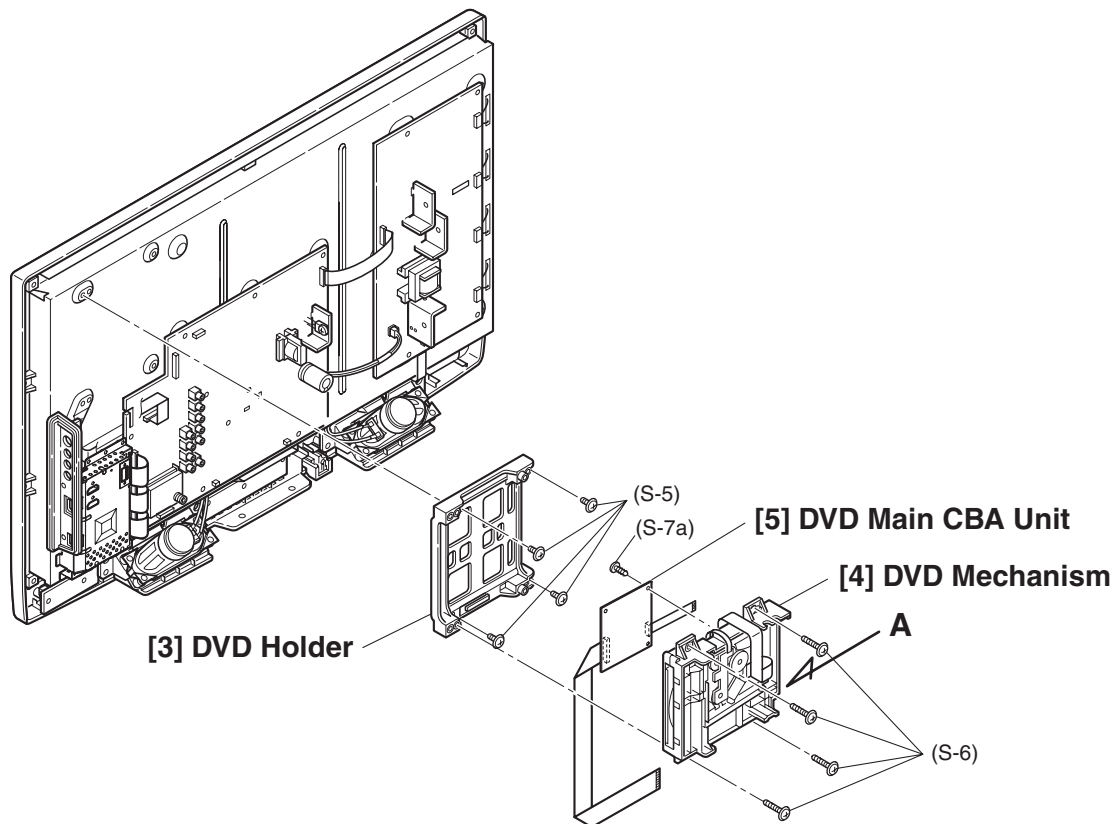


Fig. D1



Remove the two screws (S-7b), then short-circuit the three short lands by soldering as shown in View from the "A" angle.

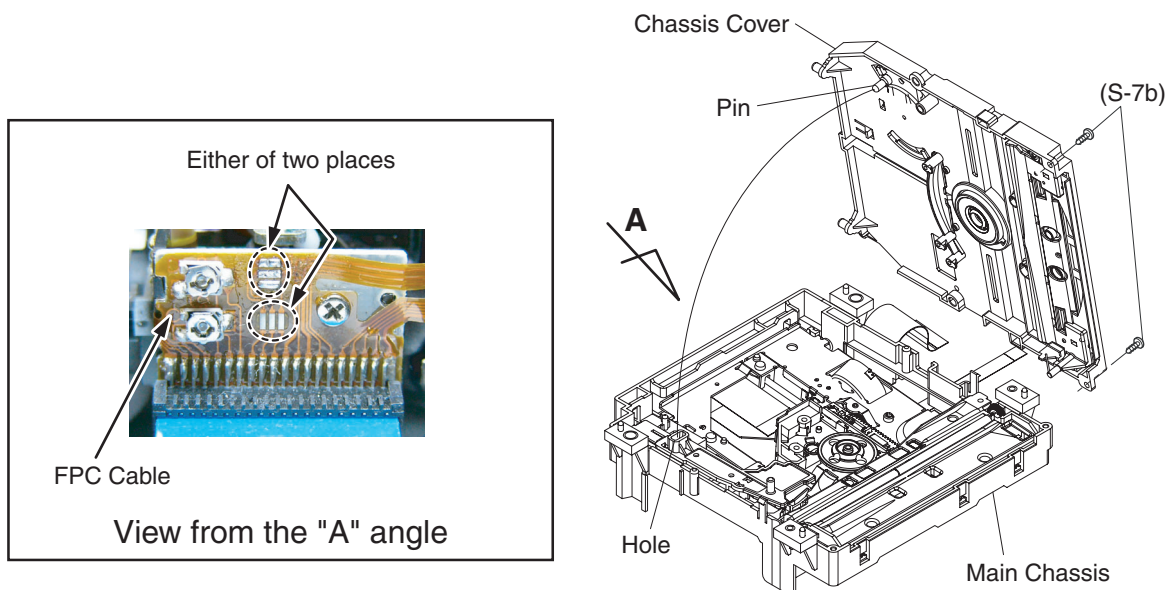


Fig. D2

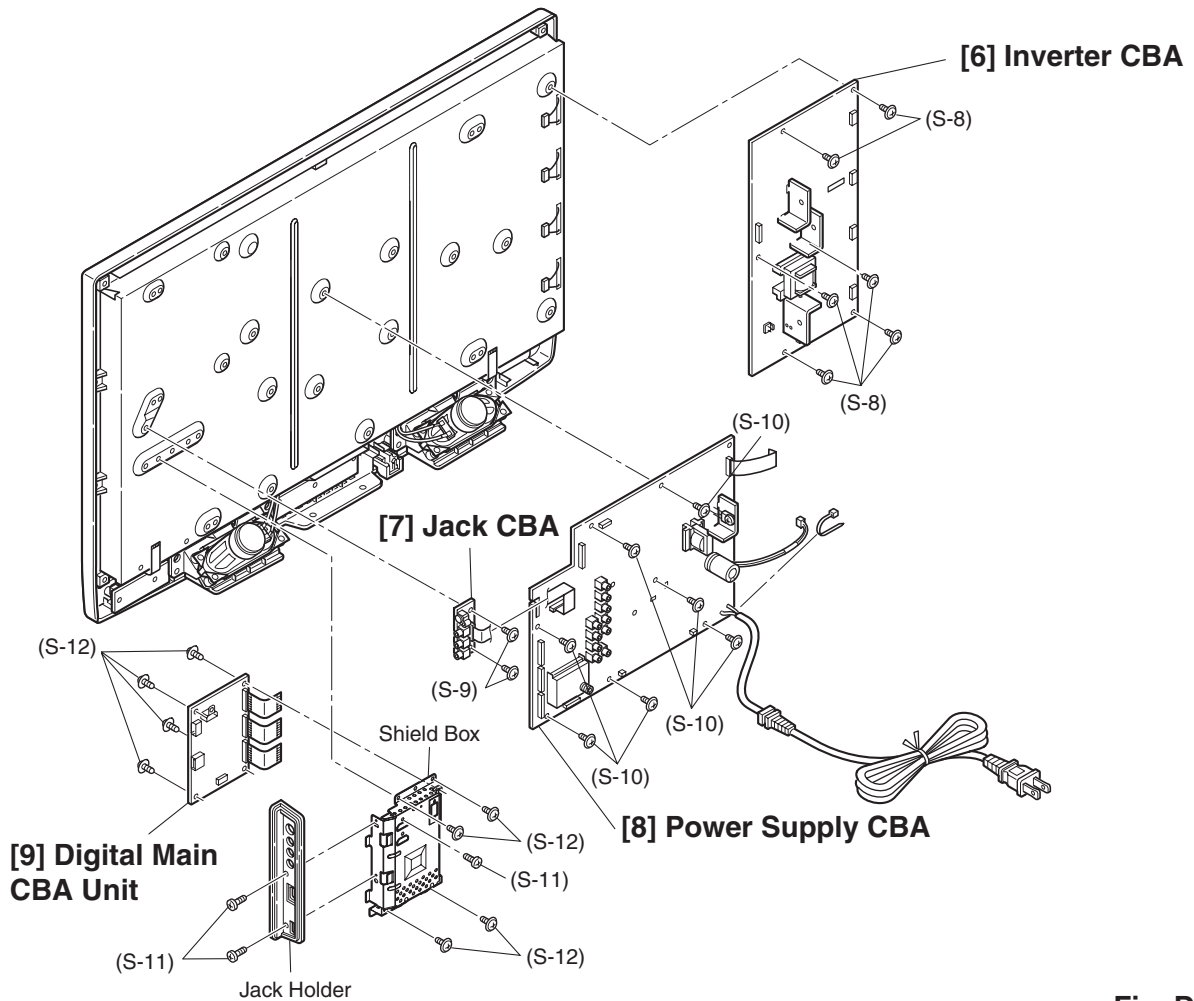
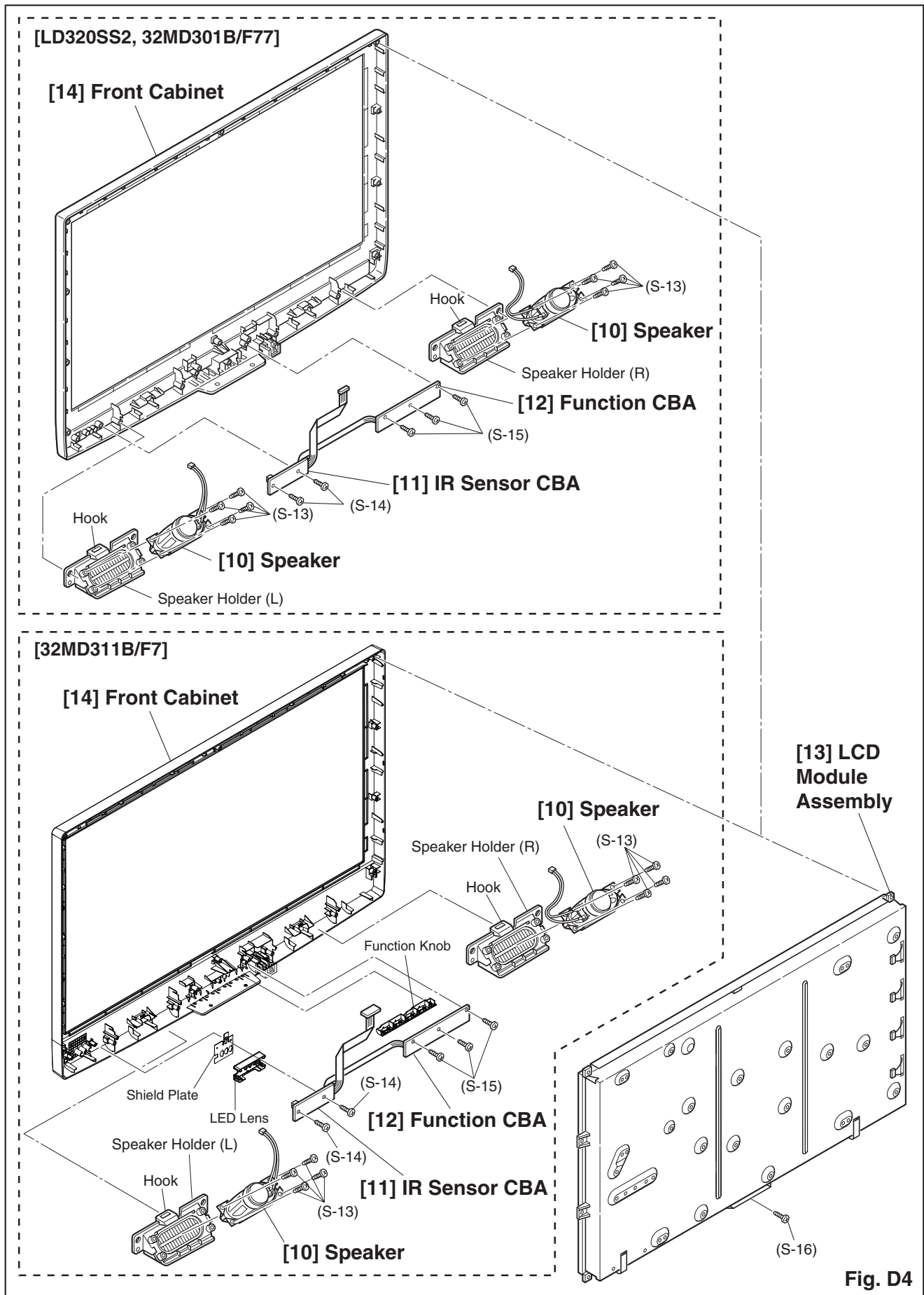
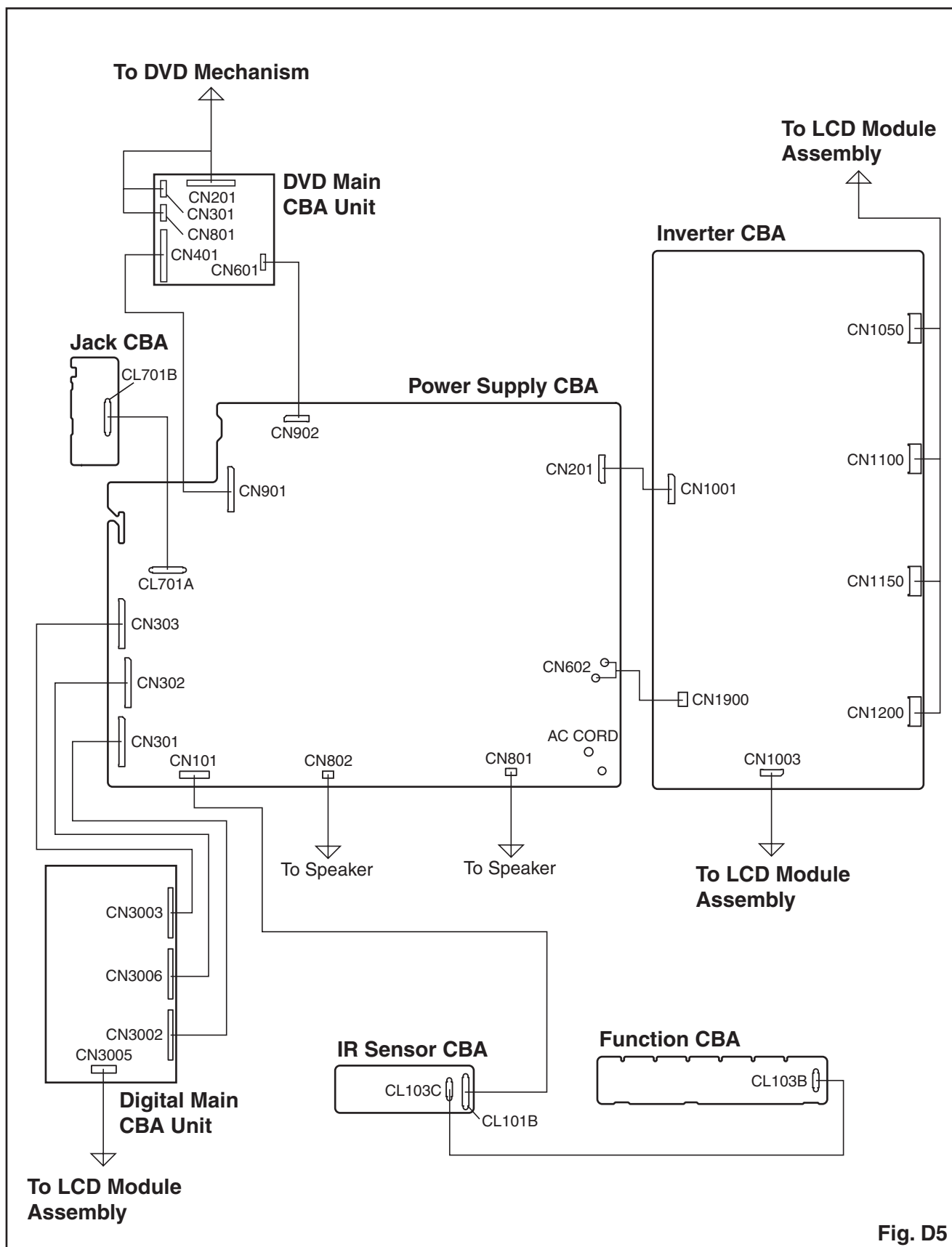


Fig. D3



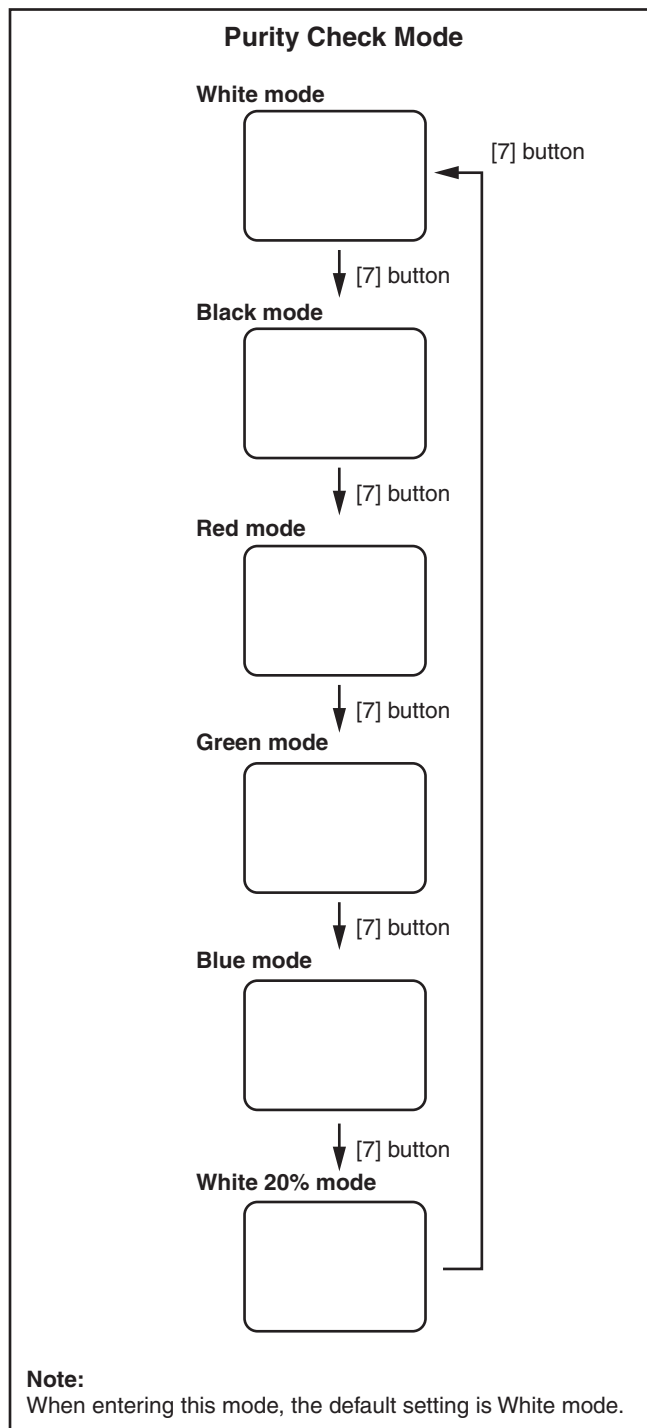
TV Cable Wiring Diagram



1. Purity Check Mode

This mode cycles through full-screen displays of red, green, blue, and white to check for non-active pixels.

1. Enter the Service mode.
2. Each time the [7] button on the remote control unit is pressed, the display changes as follows.

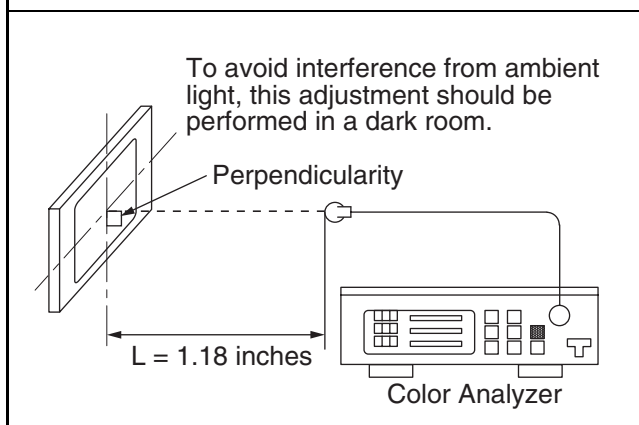


3. To cancel or to exit from the Purity Check Mode, press [CH RETURN] or [PREV CH] button.

2. VCOM Adjustment

Test Point	Adj. Point
Screen	[CHANNEL UP/DOWN] buttons
M. EQ.	Spec.
Color analyzer	See below

Figure



1. Operate the unit for more than 60 minutes.
2. Set the color analyzer at the zero point calibration and bring the optical receptor pointing at the center of the LCD-Panel at a distance of 1.18 inches(3cm) away from the LCD-Panel surface.
Note: The optical receptor must be set perpendicularly to the LCD Panel surface.
3. Enter the Service mode.
4. Press [3] button on the remote control unit.
5. Press [CHANNEL UP/DOWN] buttons on the remote control unit so that the color analyzer value becomes minimum.
6. To cancel or to exit from the VCOM Adjustment, press [CH RETURN] or [PREV CH] button.

The White Balance Adjustment should be performed when replacing the LCD Panel or Digital Main CBA.

3. White Balance Adjustment

Purpose: To mix red and blue beams correctly for pure white.

Symptom of Misadjustment: White becomes bluish or reddish.

Test Point	Adj. Point	Mode	Input
Screen	[VOLUME DOWN] button	[VIDEO1] C/D	White Raster (APL 70%) or (APL 40%)
M. EQ.		Spec.	
Pattern Generator, Color analyzer		$x = 0.272 \pm 0.005$ $y = 0.278 \pm 0.005$	

Figure

To avoid interference from ambient light, this adjustment should be performed in a dark room.

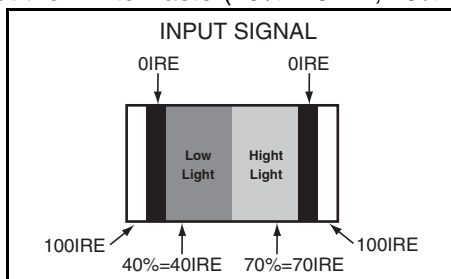
Perpendicularity

L = 1.18 inches

INPUT: WHITE 70%, 40%

Color Analyzer

1. Operate the unit for more than 60 minutes.
2. Input the White Raster(70%=70IRE, 40%=40IRE).



3. Set the color analyzer at the CHROMA mode and zero point calibration. Bring the optical receptor pointing at the center of the LCD-Panel at a distance of 1.18 inches(3cm) away from the LCD-Panel surface.

Note: The optical receptor must be set perpendicularly to the LCD Panel surface.

4. Enter the Service mode. Press [VOLUME DOWN] button on the remote control unit and select "C/D" mode.

5. [CUTOFF]

Press [1] button to select "COR" for Red Cutoff adjustment. Press [3] button to select "COB" for Blue Cutoff adjustment.

[DRIVE]

Press [4] button to select "DR" for Red Drive adjustment. Press [6] button to select "DB" for Blue Drive adjustment.

6. In each color mode, press [CHANNEL UP/DOWN] buttons to adjust the values of color.
7. Adjust Cutoff and Drive so that the color temperature becomes 12000°K ($x = 0.272$ / $y = 0.278 \pm 0.005$).
8. To cancel or to exit from the White Balance Adjustment, press [CH RETURN] or [PREV CH] button.

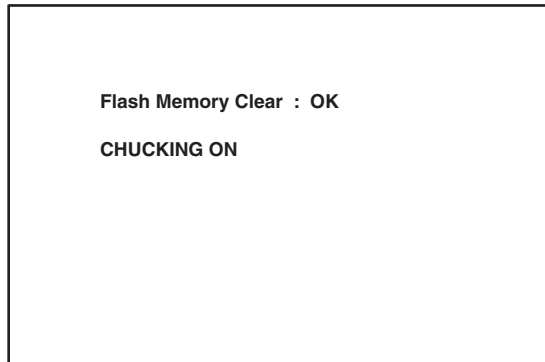
HOW TO INITIALIZE THE LCD TV/DVD

The purpose of initialization is to place the set in a new out of box condition. The customer will be prompted to select a language and program channels after the set has been initialized.

To put the program back at the factory-default, initialize the LCD TV/DVD using the following procedure.

< DVD Section >

1. Turn the power on.
2. To enter the service mode, press the service button on the service remote control unit.
 - To cancel the service mode, press [POWER] button on the service remote control unit.
3. To put the LCD TV/DVD into the DVD mode, press [CH RETURN] or [PREV CH] on the remote control unit.
4. To put the LCD TV/DVD into the Flash clear mode, press [INPUT SELECT] or [SOURCE] buttons on the remote control unit within five seconds.
The following screen appears.



When "OK" appears on the screen, the factory default will be set.

5. To exit this mode, press [CHANNEL UP/DOWN] button to go to TV mode, or press [POWER] button to turn the power off.

Note: The name of buttons may vary with the brand of unit.

< LCD TV Section >

1. Turn the power on.
2. Enter the service mode.
 - To cancel the service mode, press [POWER] button on the remote control unit.
3. Press [INFO] button on the remote control unit to initialize the LCD television.
4. "INITIALIZED" will appear in the upper right of the screen. "INITIALIZED" color will change to green from red when initializing is completed.

FIRMWARE RENEWAL MODE

< DVD Section >

1. Turn the power on and press [EJECT] button on the remote control unit to put the LCD TV/DVD into DVD mode. Then remove the disc.
2. To put the LCD TV/DVD into F/W version up mode, press [9], [8], [7], [6], and [MODE] buttons on the remote control unit in this order. Fig. a appears on the screen.

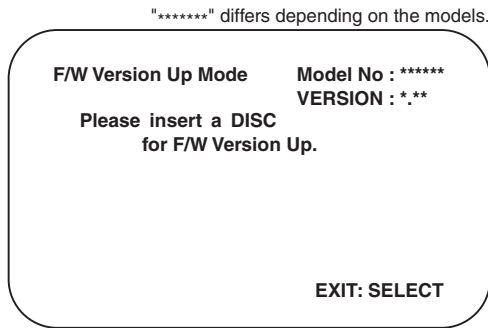


Fig. a Version Up Mode Screen

3. Insert the disc for version up into the disc slot.
4. The LCD TV/DVD enters the F/W version up mode automatically. Fig. b appears on the screen. Make sure to insert the proper F/W for the state of this model.

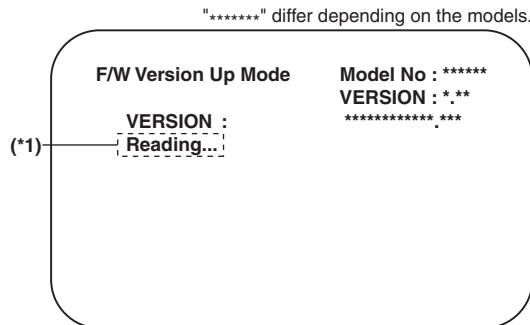


Fig. b Programing Mode Screen

The appearance shown in (*1) of Fig. b is described as follows:

No.	Appearance	State
1	Reading...	Sending files into the memory
2	Erasing...	Erasing previous version data
3	Programming...	Writing new version data

5. After programming is finished, the disc will be ejected automatically. Fig. c appears on the screen and the checksum will be shown in (*2).

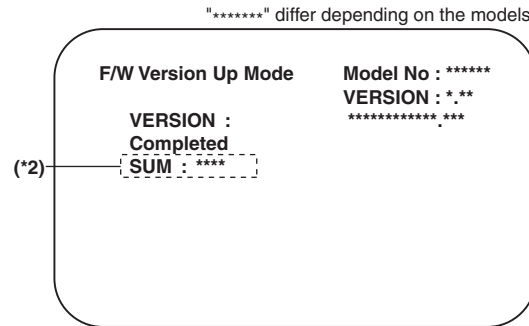


Fig. c Completed Program Mode Screen
At this time, no button is available.

6. Remove the disc.
7. Unplug the AC cord from the AC outlet then plug in again.
8. Press [EJECT] button on the remote control unit to put the LCD TV/DVD into DVD mode again.
9. Press [1], [2], [3], [4], and [INFO] buttons on the remote control unit in this order. Fig. d appears on the screen.

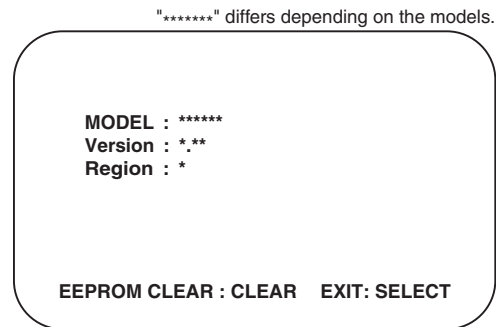


Fig. d

10. Press [CLEAR] button on the remote control unit. Fig. e appears on the screen.

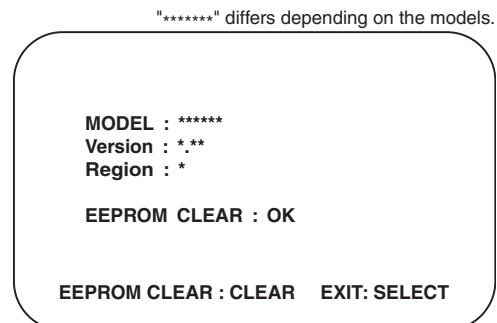


Fig. e

When "OK" appears on the screen, the factory default will be set. The firmware renewal mode is now complete.

11. To exit this mode, press [CHANNEL UP/DOWN] button to go to TV mode, or press [POWER] button to turn the power off.

< LCD TV Section >

Equipment Required

- USB storage device
- Remote Control Unit

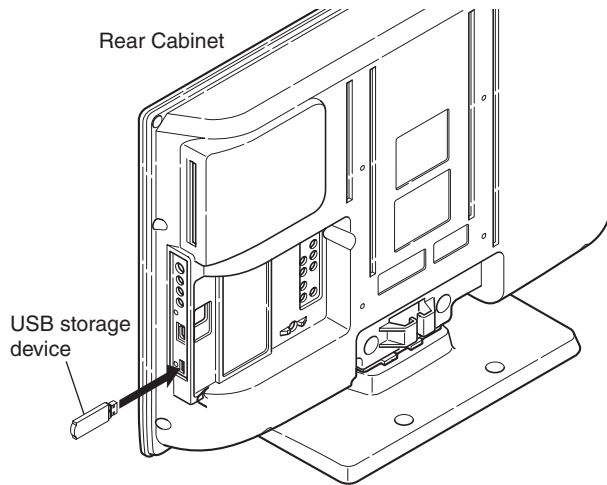
Firmware Update Procedure

Note: There are two states (the User Upgrade and the Factory Upgrade) in firmware update.

User Upgrade	Upgrade the firmware only. The setting values are not initialized.
Factory upgrade	Upgrade the firmware and initialize the setting values.

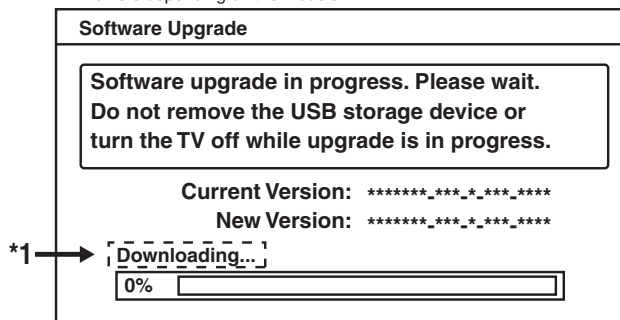
The identification of User Upgrade and Factory Upgrade are done by the filename.

- Turn the power off and unplug the AC Cord.
- Insert the USB storage device to the USB port as shown below.



- Plug the AC cord in the wall outlet and turn the power on.
- The update will start and the following will appear on the screen.

*1 differs depending on the models.

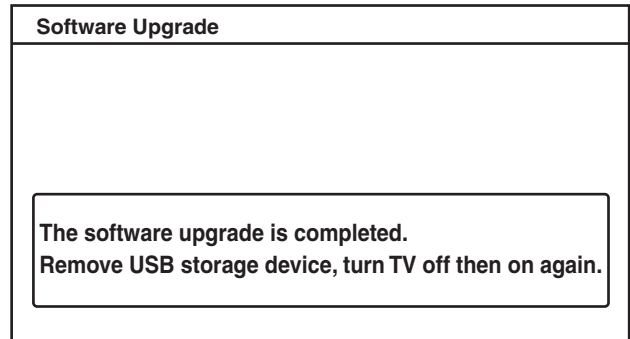


Note: If the above screen isn't displayed, repeat from step 1.

The appearance shown in *1 is described as follows.

Appearance	State
Downloading...	Downloading the firmware from the USB storage device.
Writing...	Writing the downloaded firmware in flash memory.
Checking...	Checking the new firmware.

- When the firmware update is completed, the following will appear on the screen.



Remove the USB storage device from the USB port.
Turn the power off and turn the power on again.

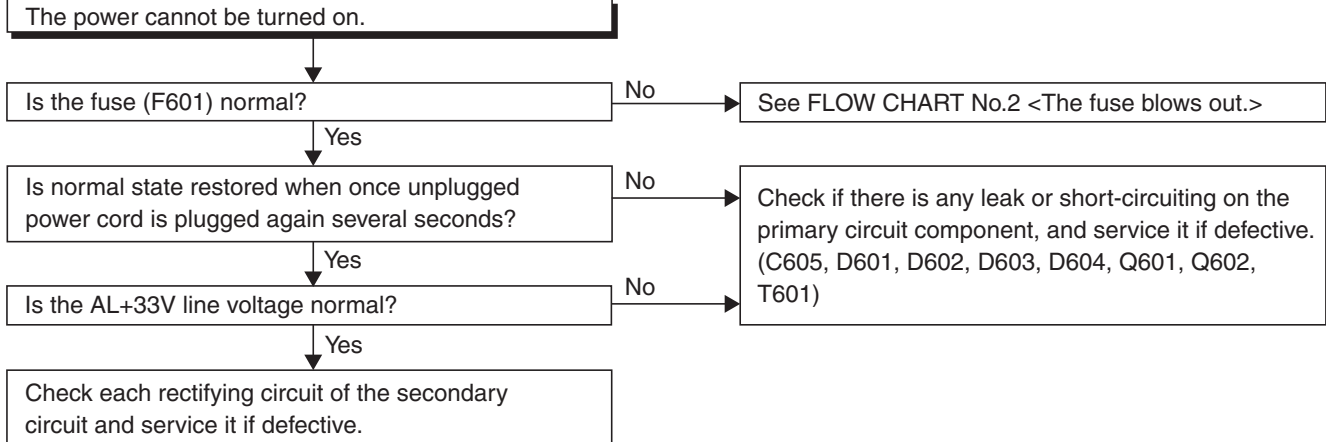
Note:

When the Factory Upgrade is used, after restarting TV, shift to initial screen menu in service mode. "INITIALIZED" will appear on the upper right of the screen. "INITIALIZED" color will change to green from red when initializing is completed.

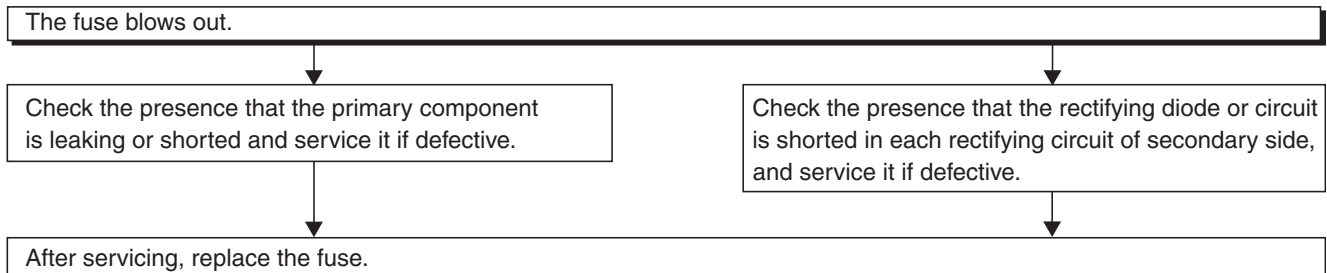
TROUBLESHOOTING

[Power Supply Section]

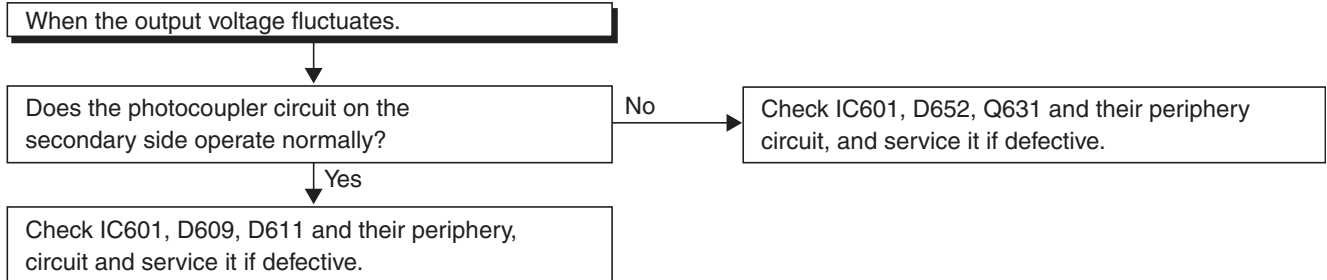
FLOW CHART NO.1



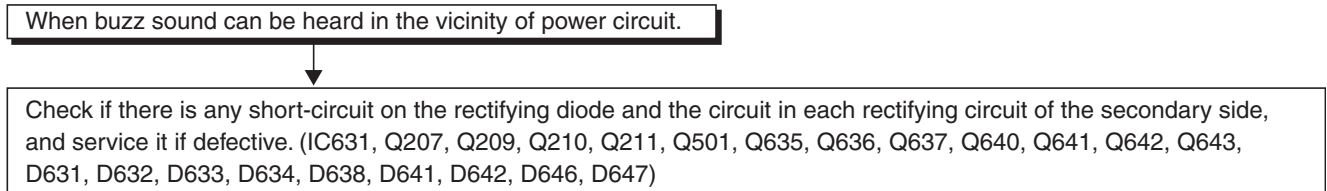
FLOW CHART NO.2



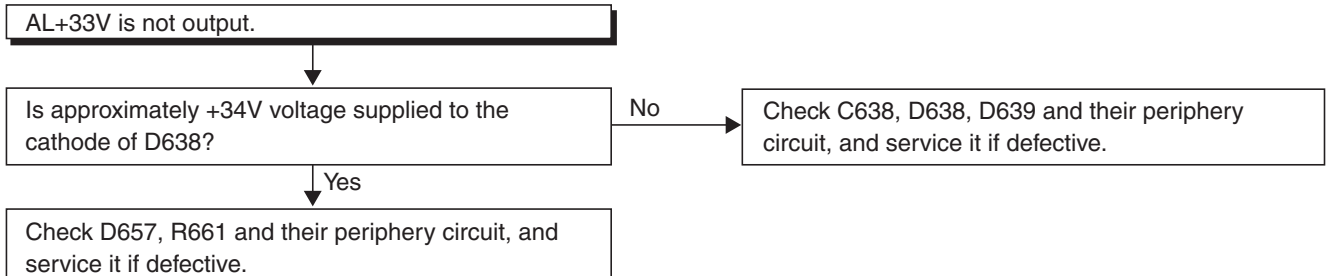
FLOW CHART NO.3



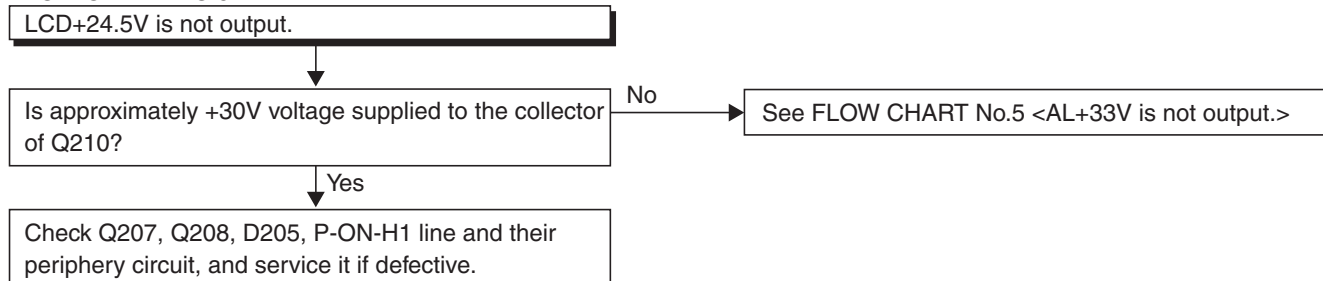
FLOW CHART NO.4



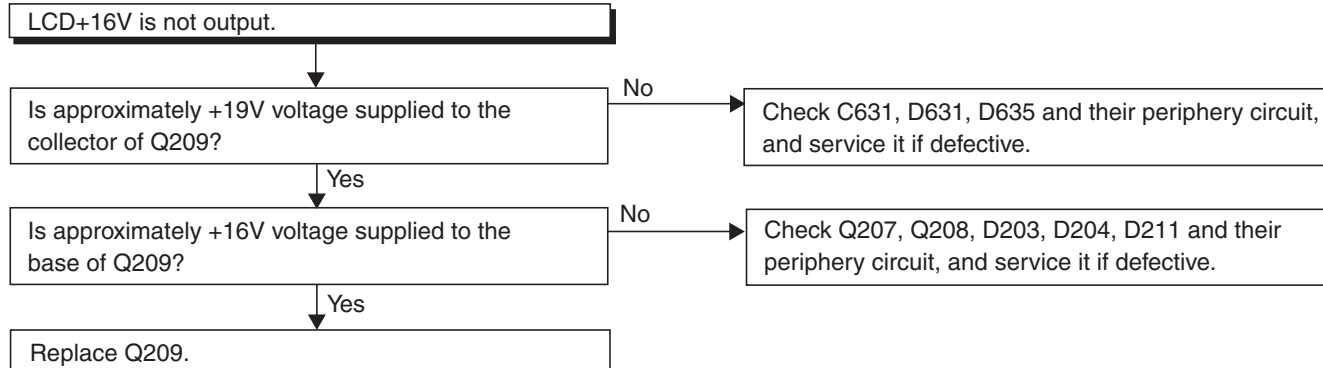
FLOW CHART NO.5



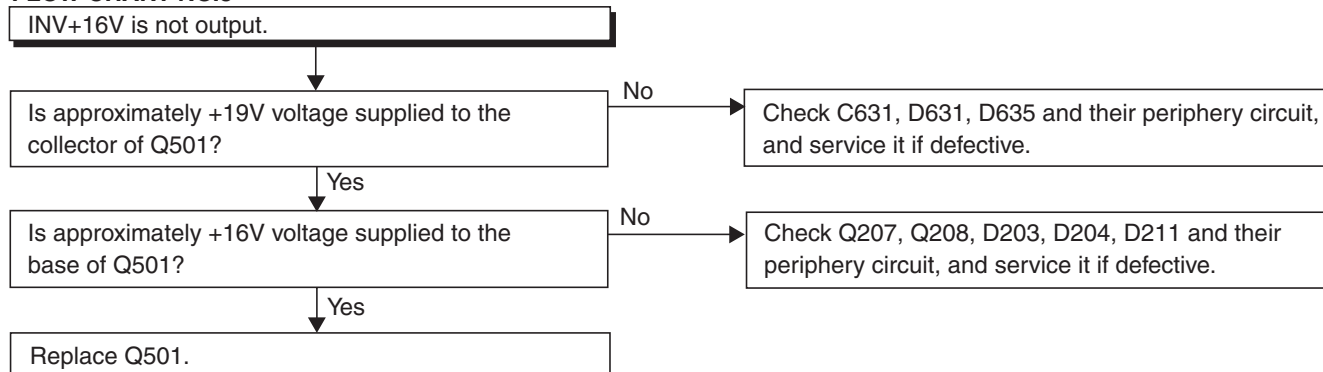
FLOW CHART NO.6



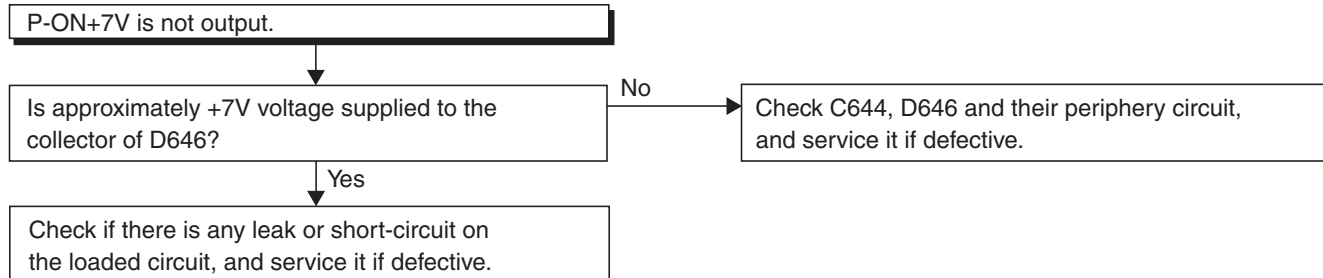
FLOW CHART NO.7



FLOW CHART NO.8

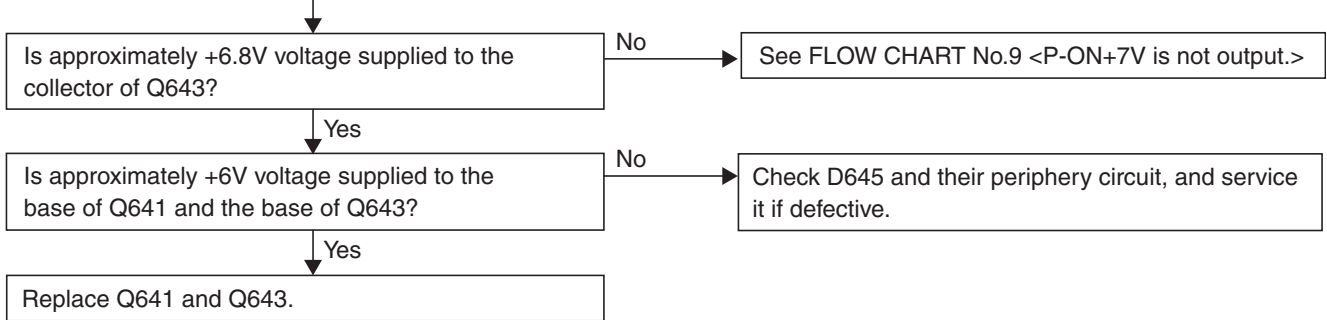


FLOW CHART NO.9



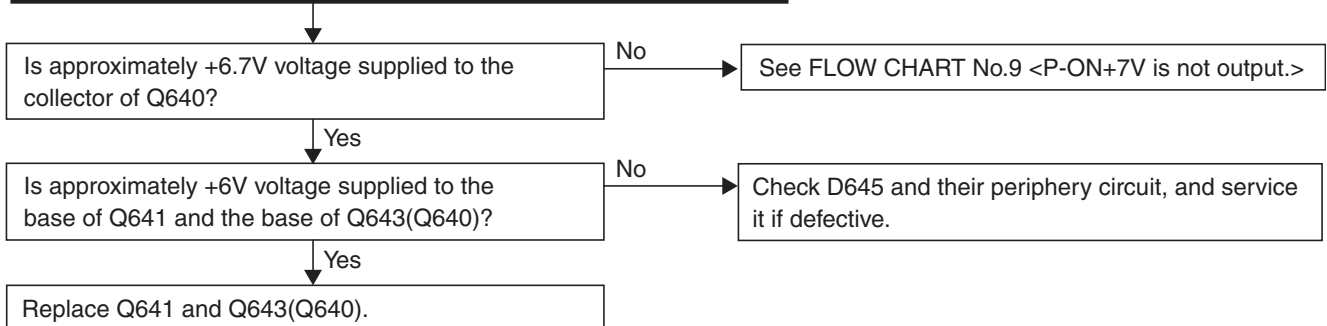
FLOW CHART NO.10

P-ON+5V is not output. (LCD+16V is outputted normally.)



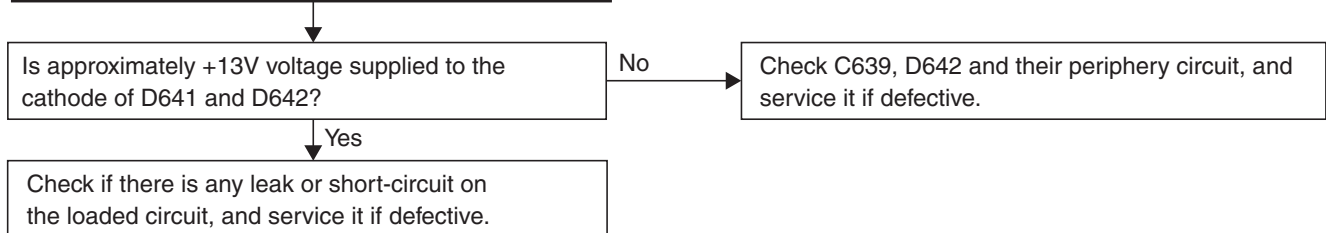
FLOW CHART NO.11

P-ON+5V(TUNER+5V) is not output. (LCD+16V is outputted normally.)



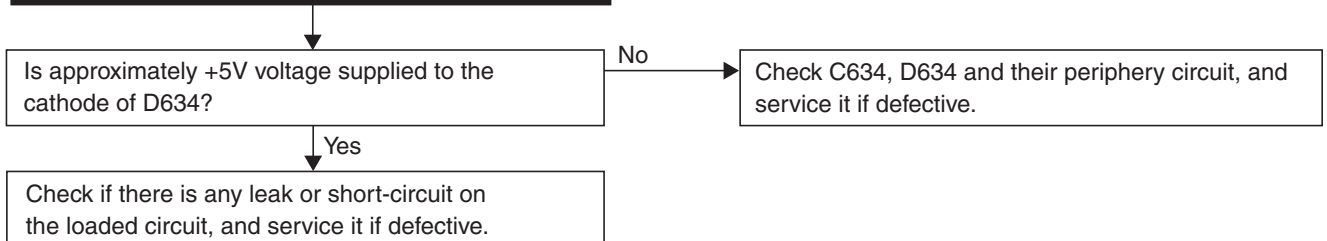
FLOW CHART NO.12

AL+13V(M+13V) is not output.

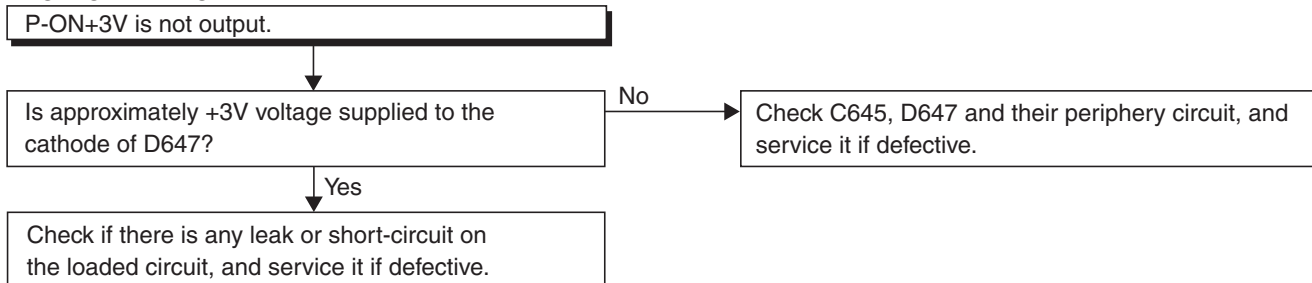


FLOW CHART NO.13

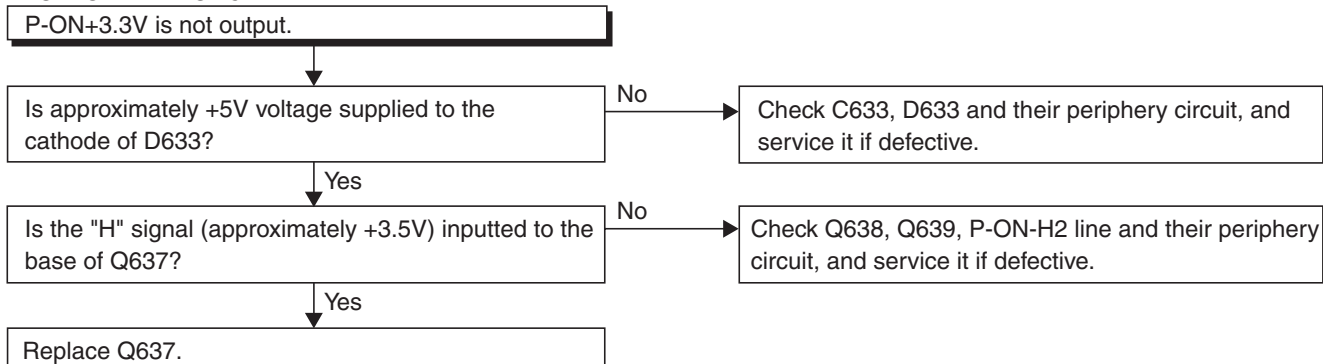
D+5.5V is not output.



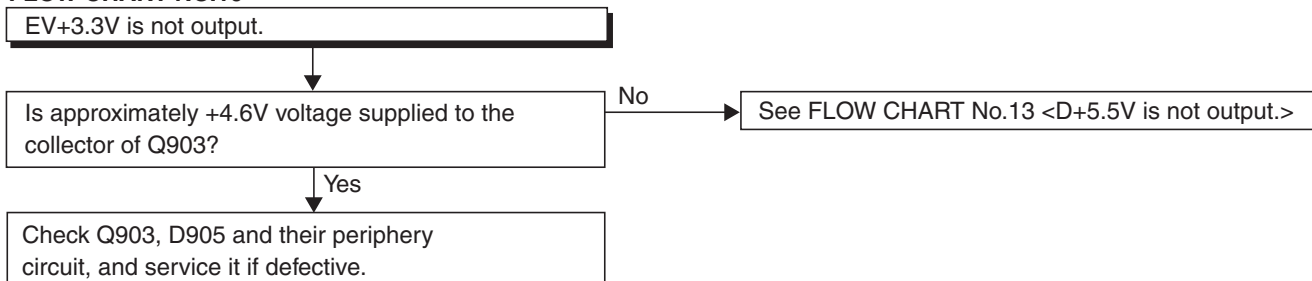
FLOW CHART NO.14



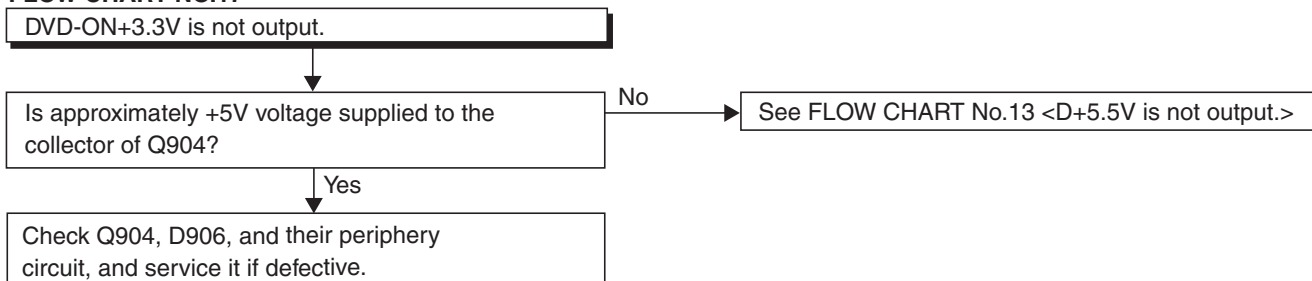
FLOW CHART NO.15



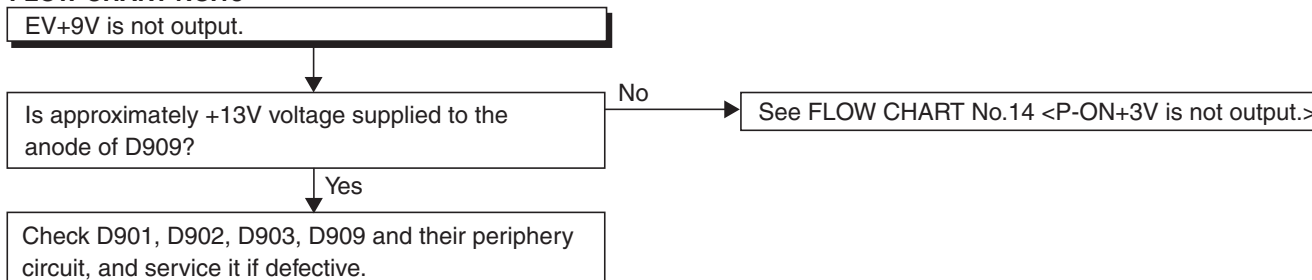
FLOW CHART NO.16



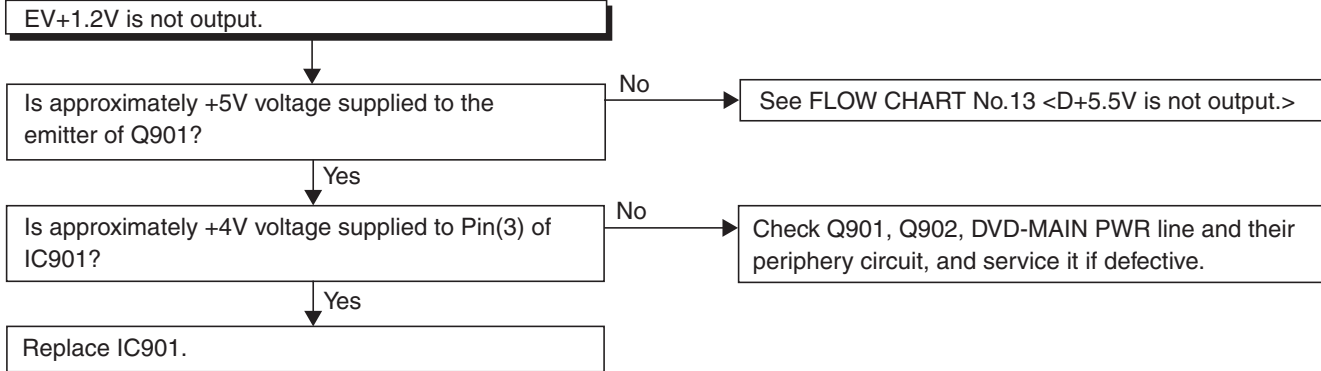
FLOW CHART NO.17



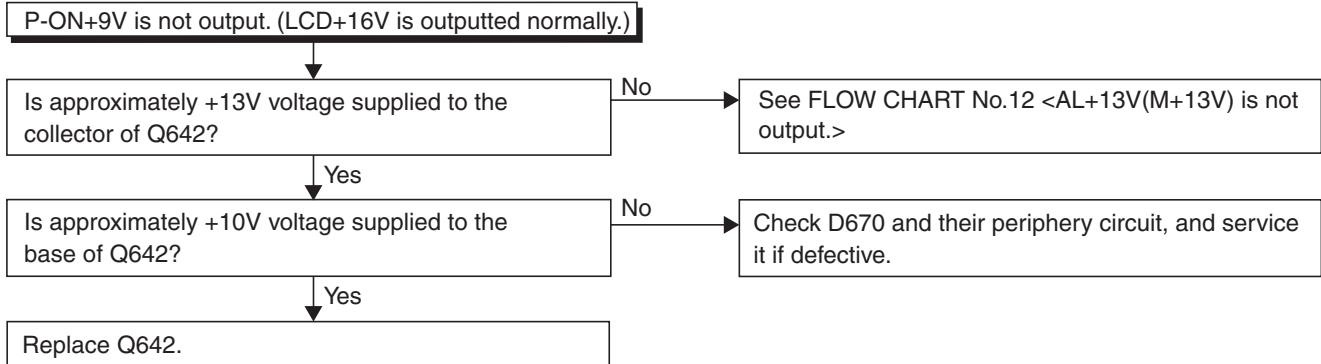
FLOW CHART NO.18



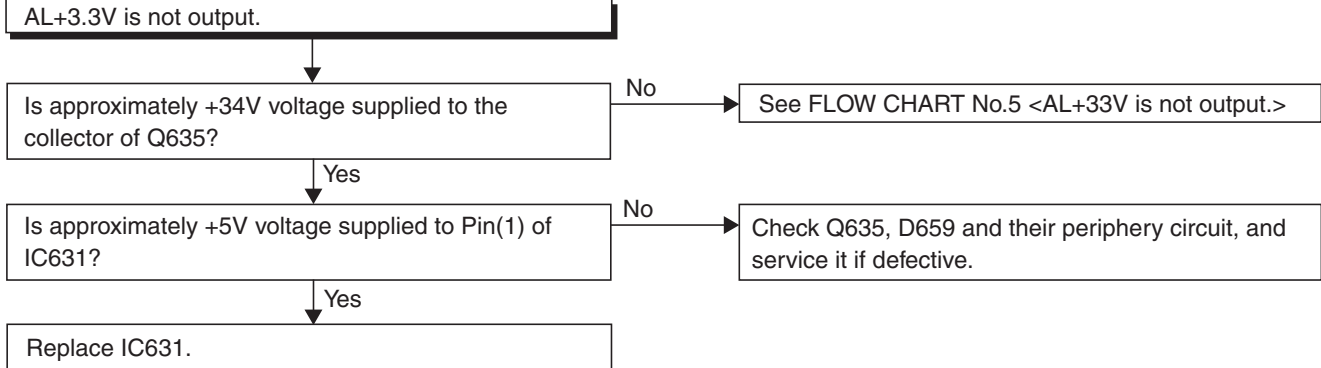
FLOW CHART NO.19



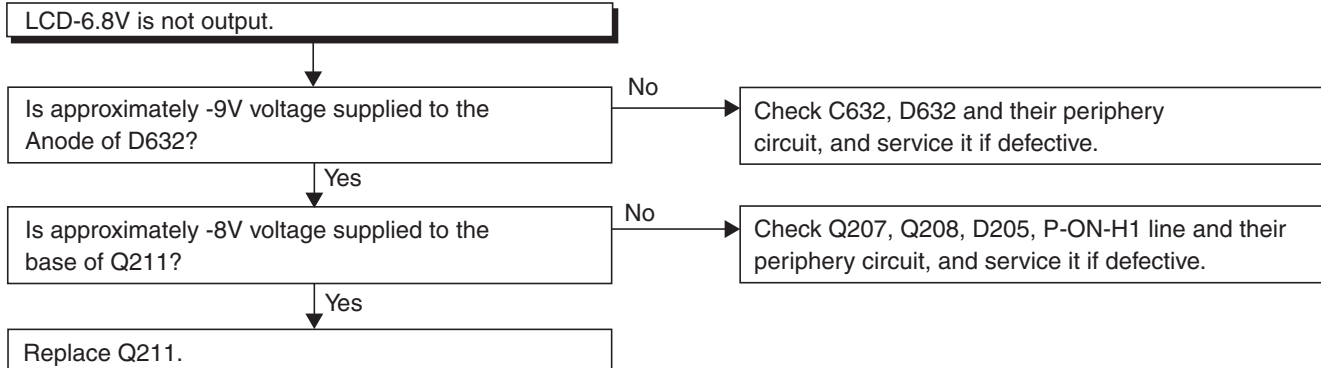
FLOW CHART NO.20



FLOW CHART NO.21

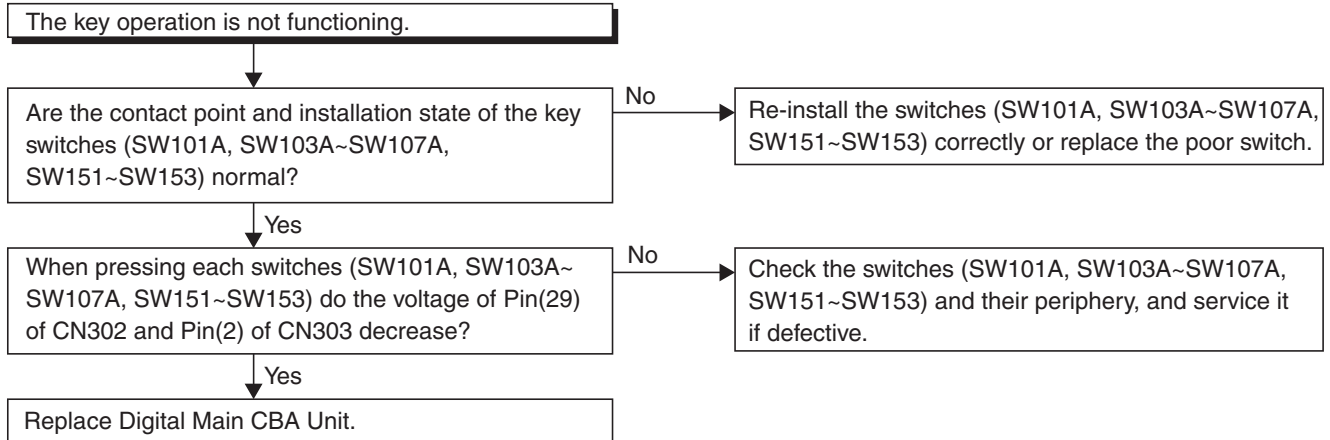


FLOW CHART NO.22

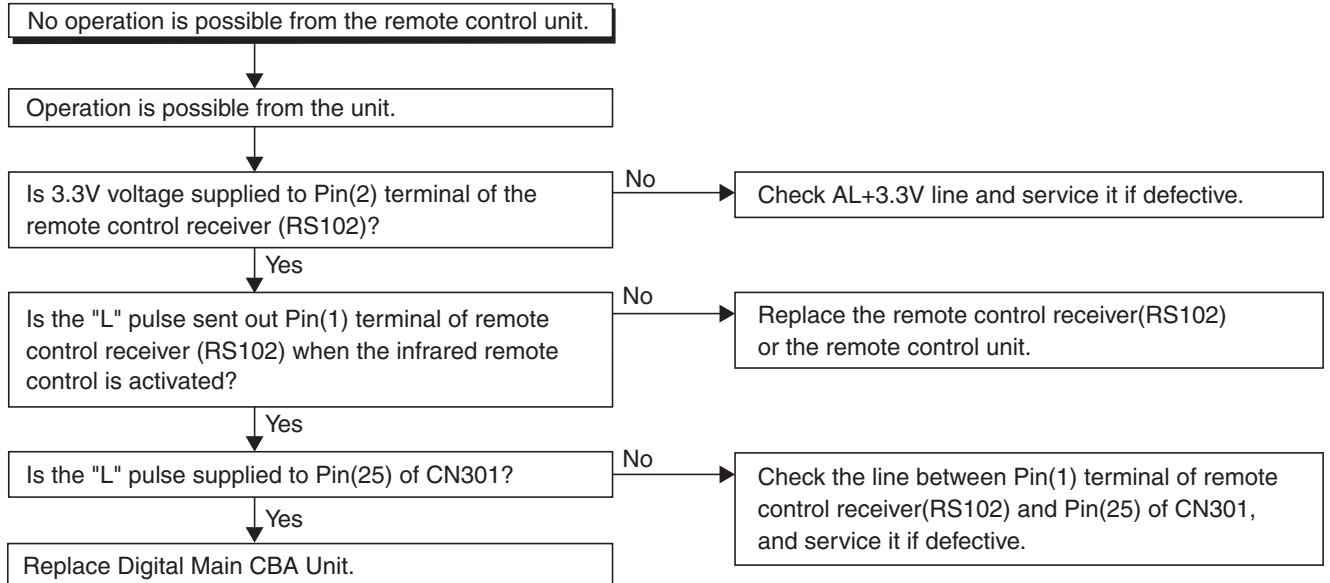


[Video Signal Section]

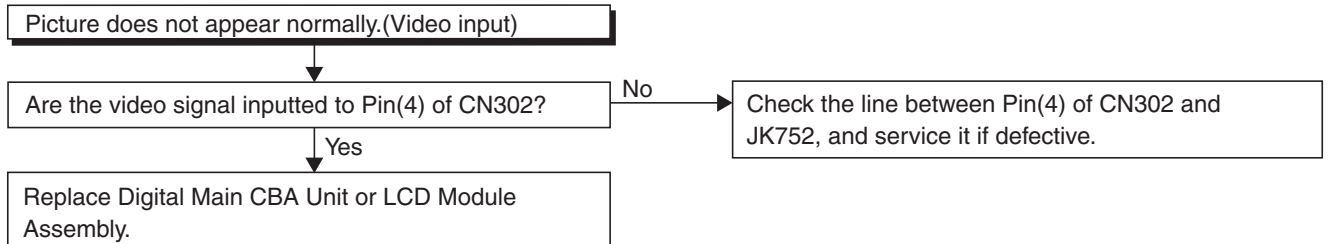
FLOW CHART NO.1



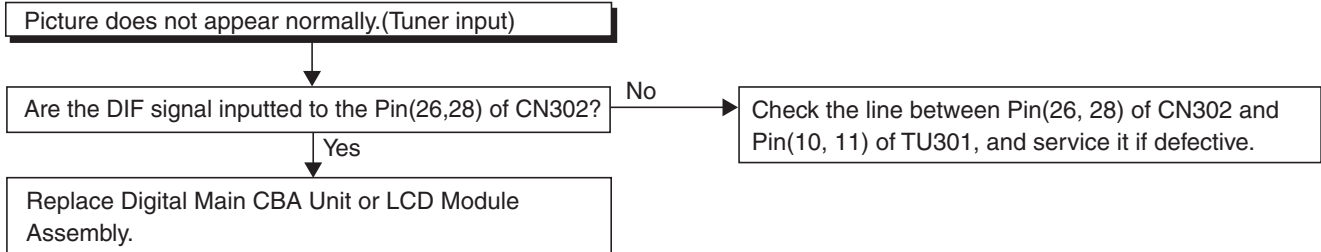
FLOW CHART NO.2



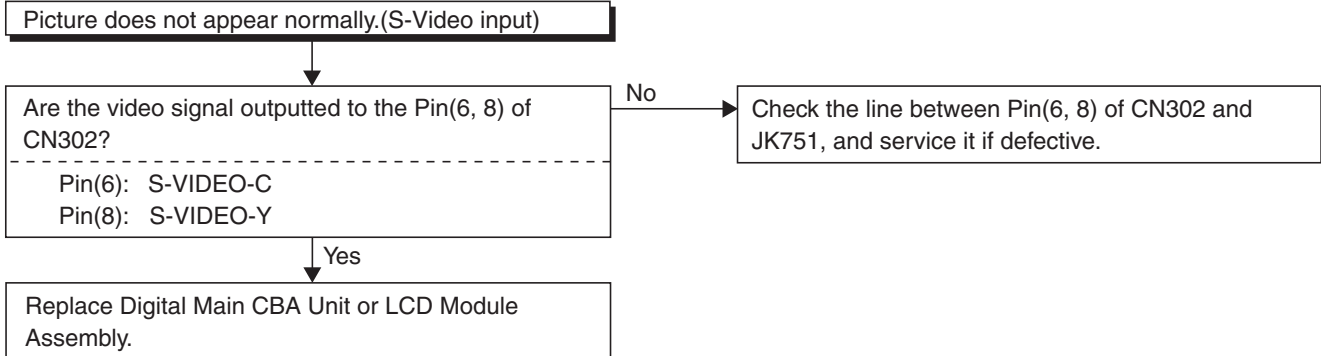
FLOW CHART NO.3



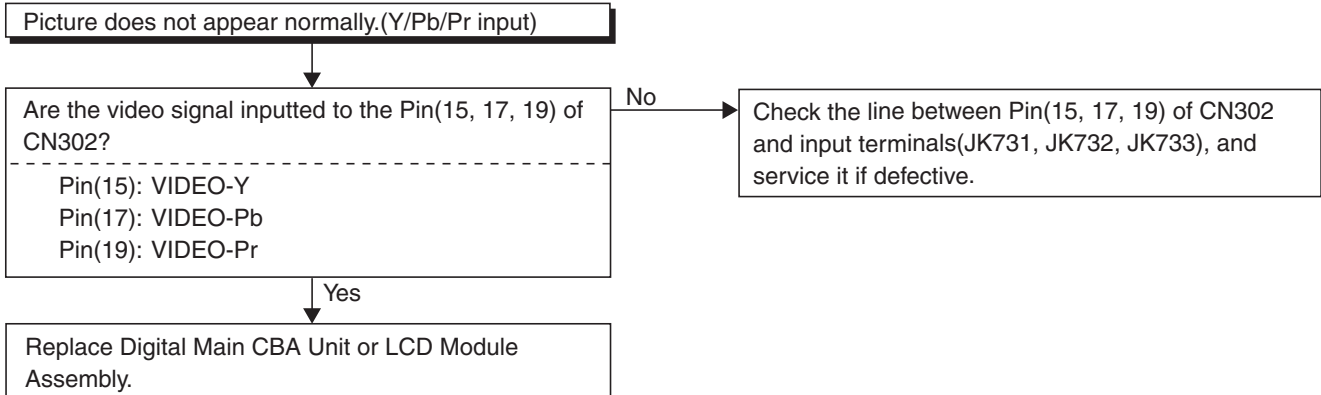
FLOW CHART NO.4



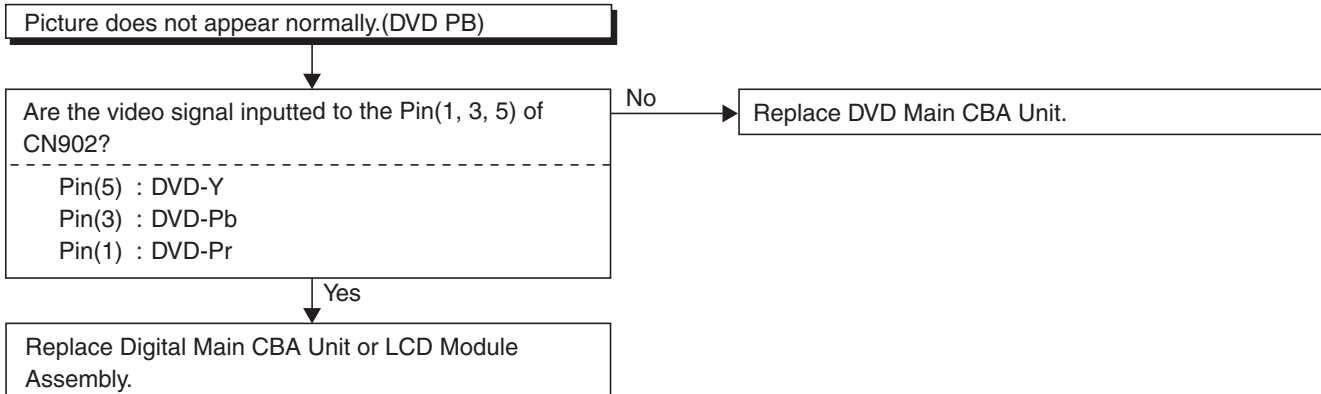
FLOW CHART NO.5



FLOW CHART NO.6

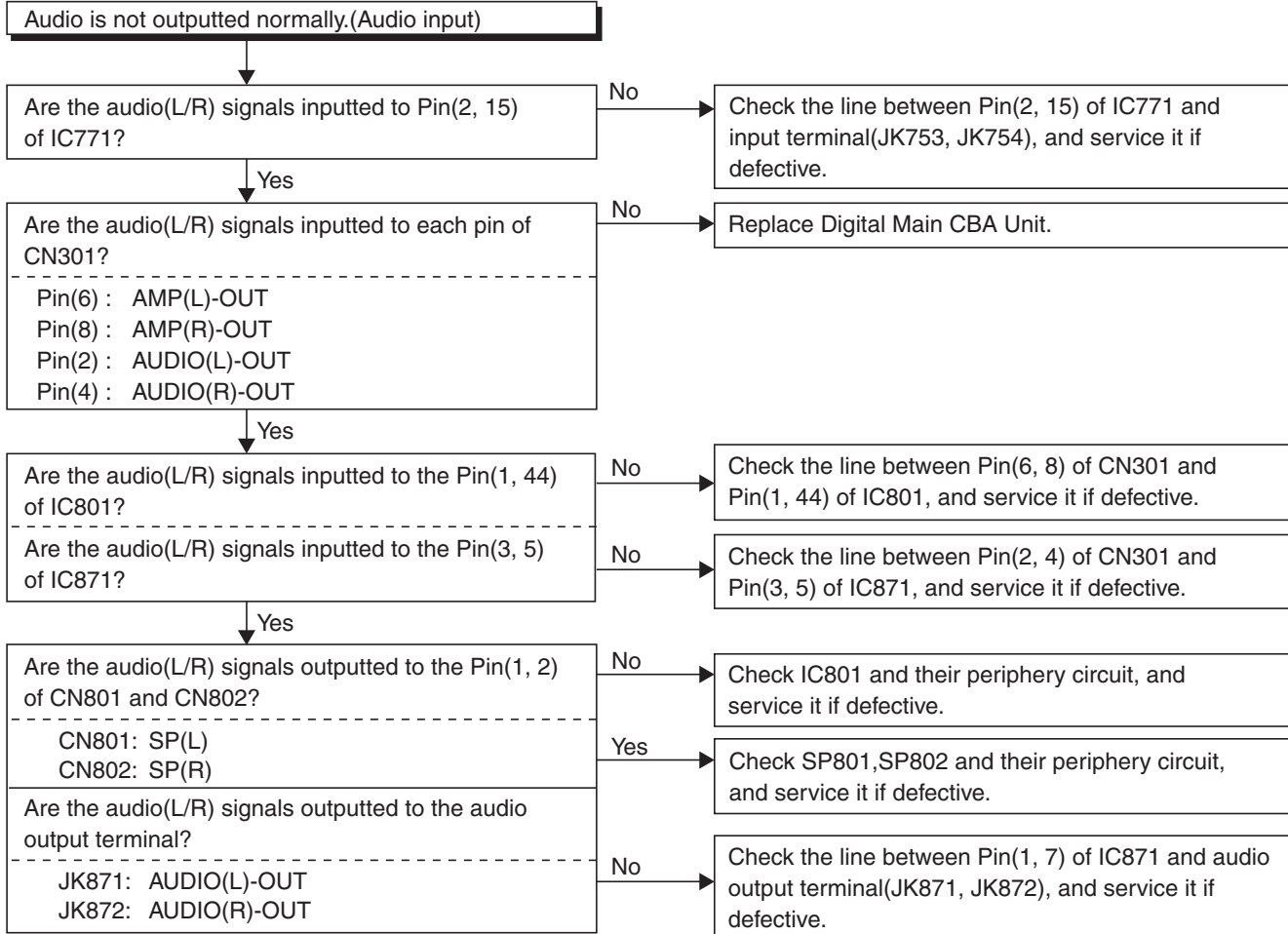


FLOW CHART NO.7



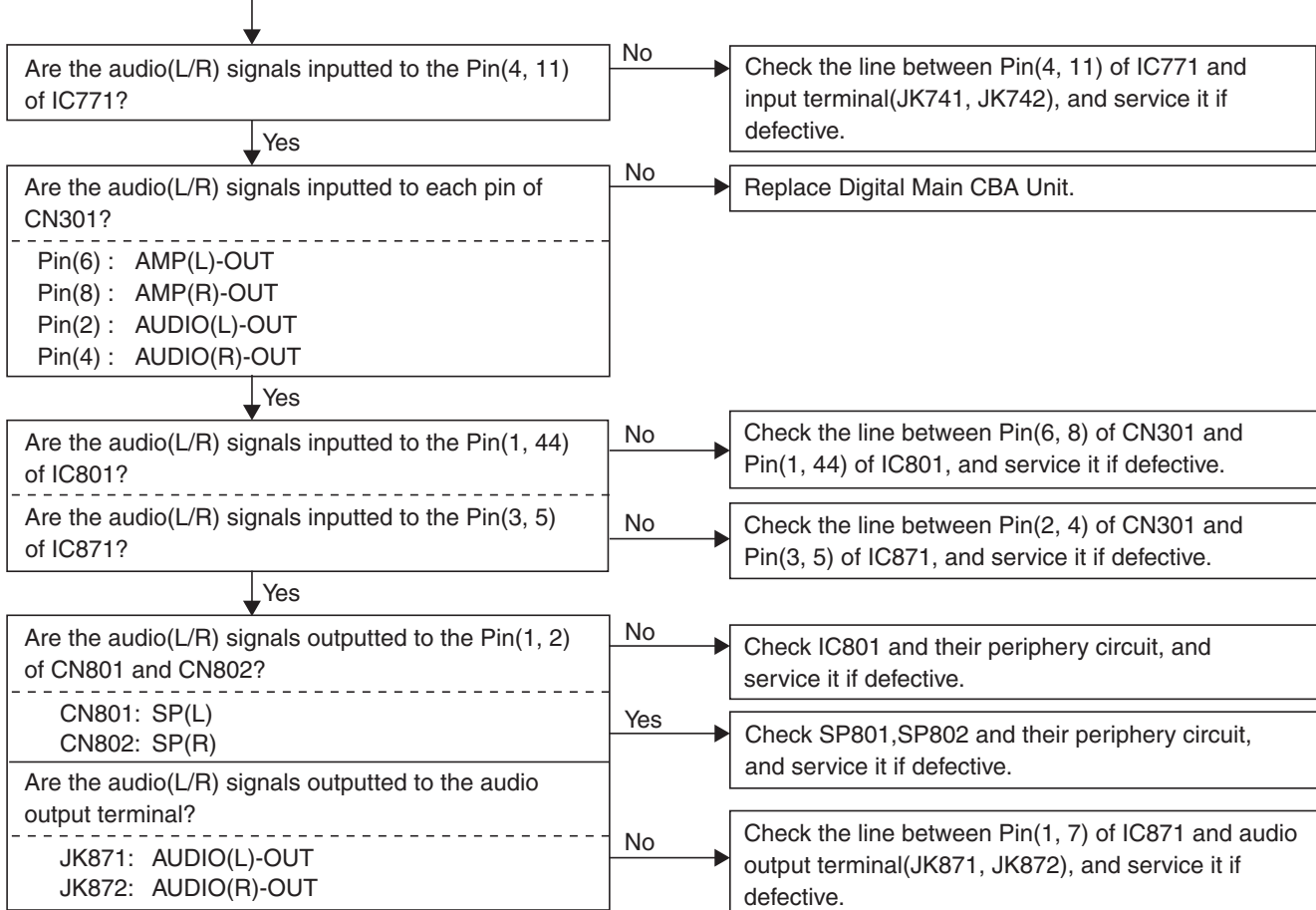
[Audio Signal Section]

FLOW CHART NO.1

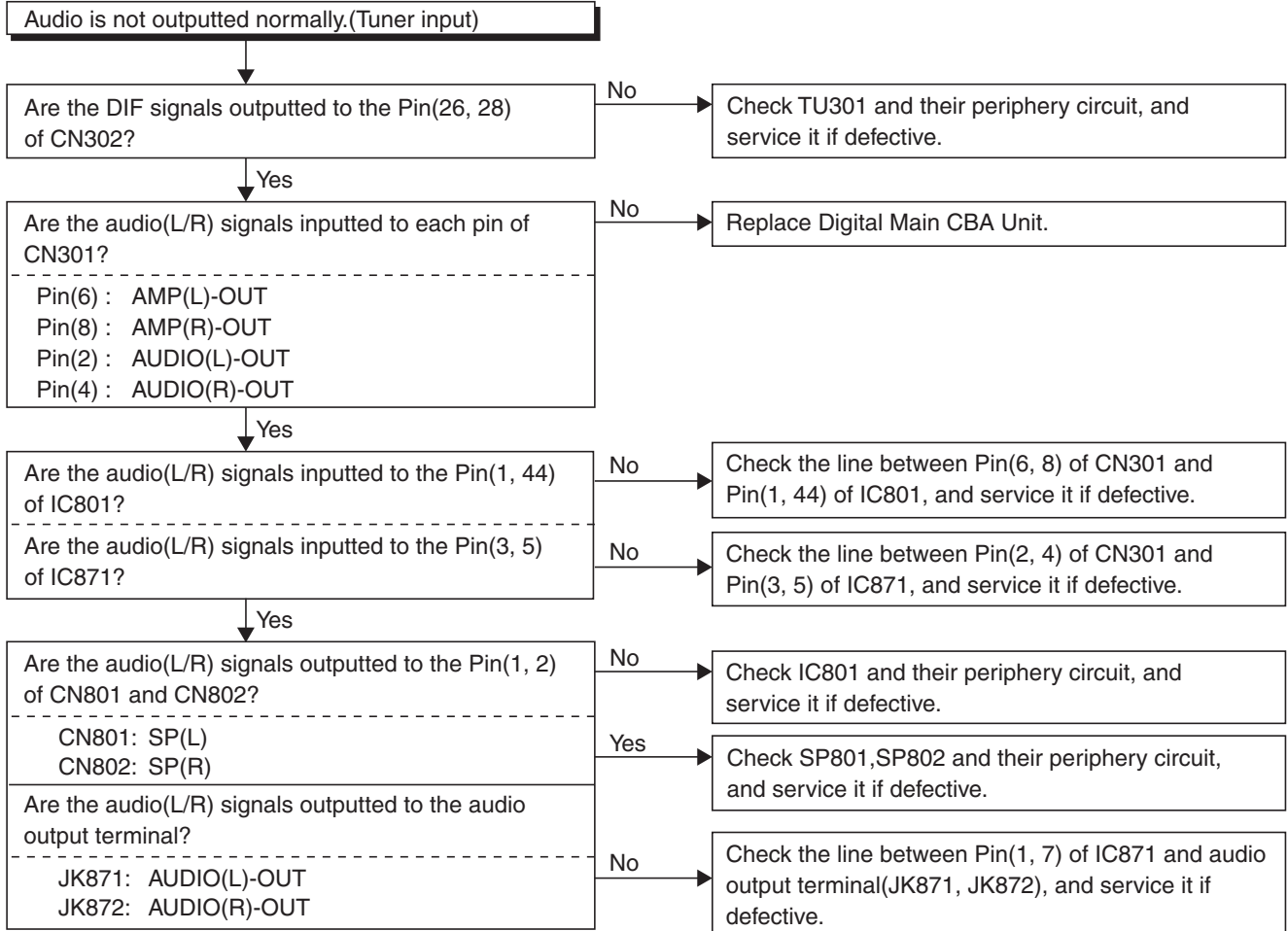


FLOW CHART NO.2

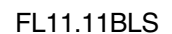
Audio is not outputted normally.(Component Audio input)



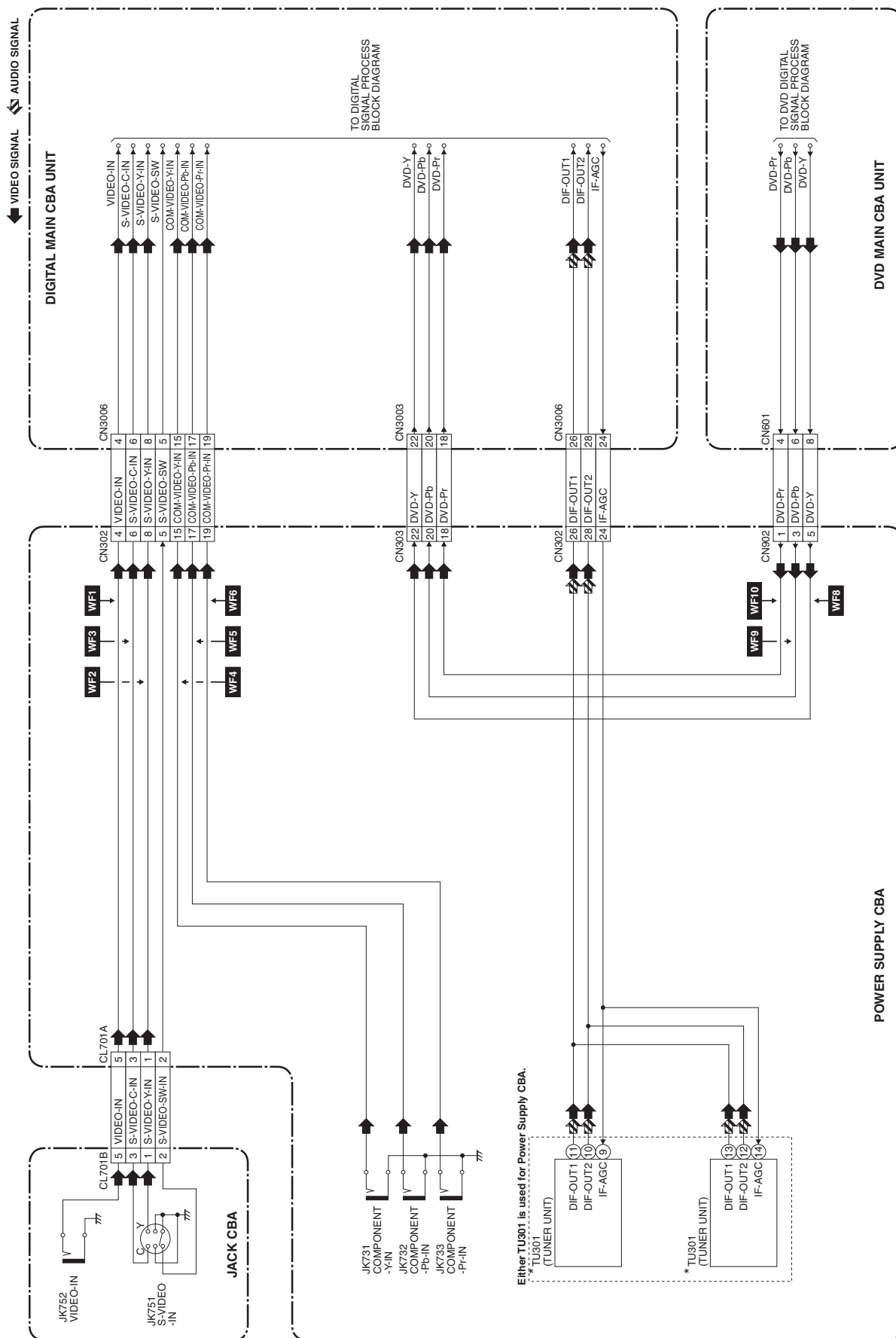
FLOW CHART NO.3



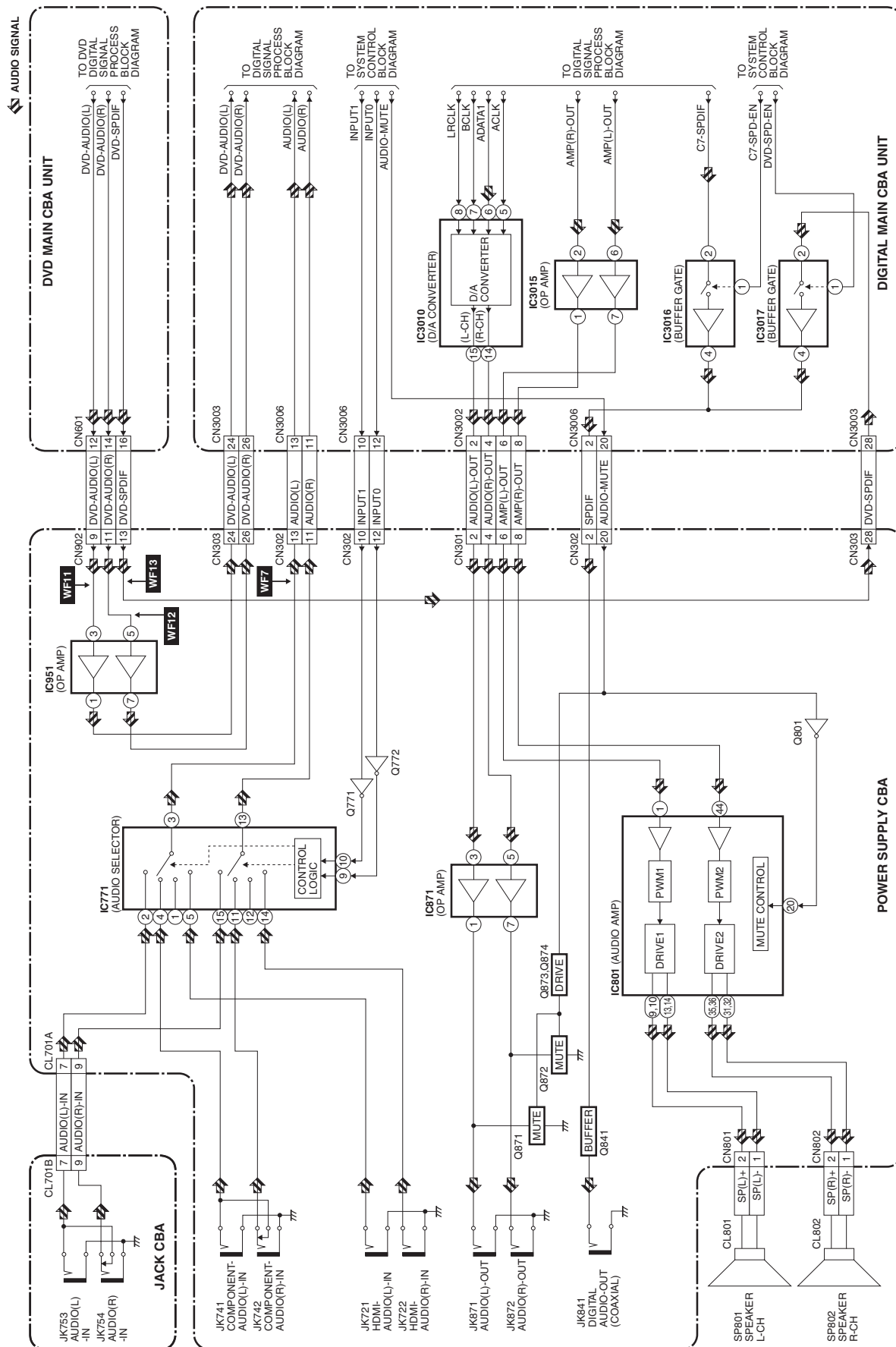
1. System Control Block Diagram



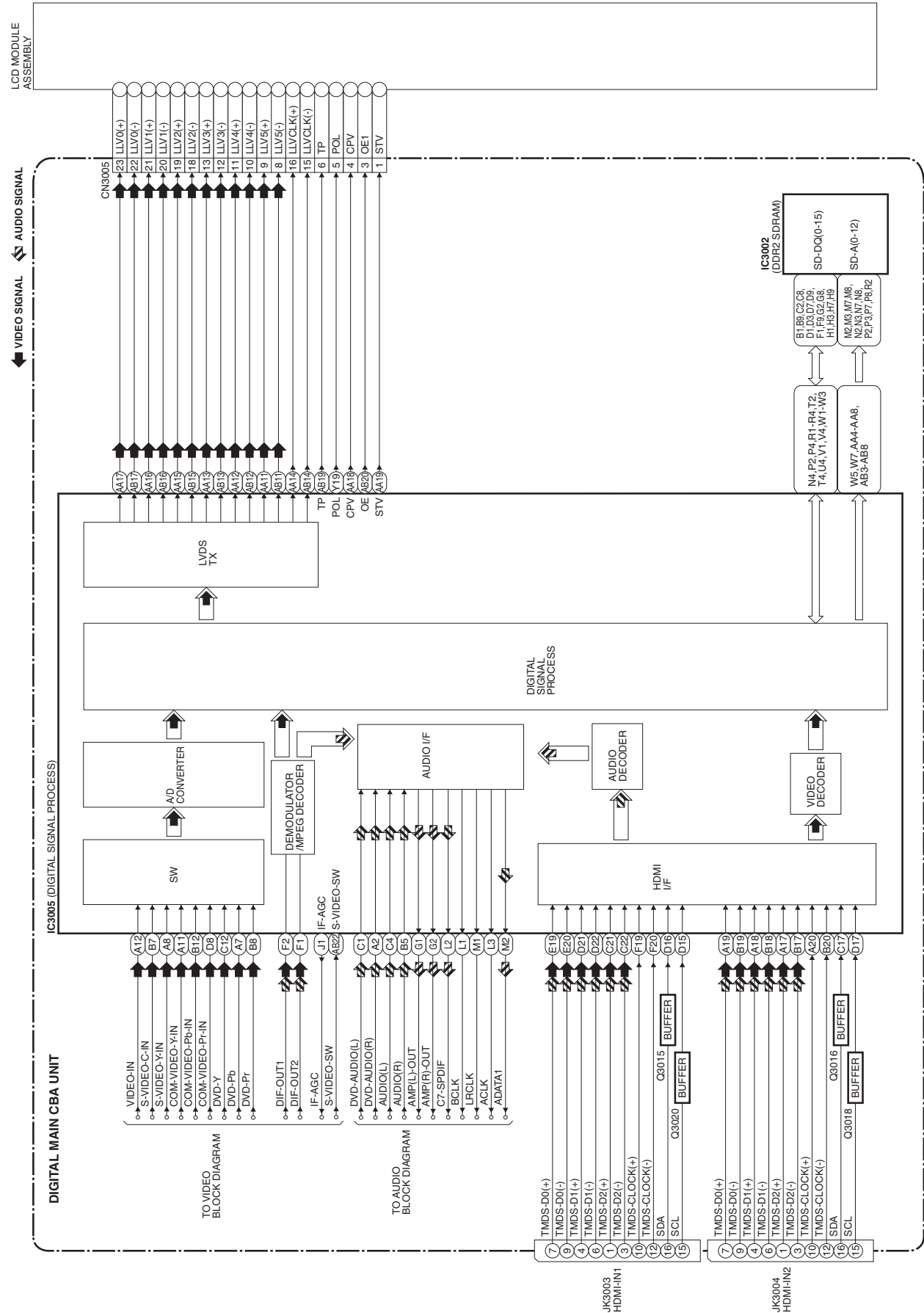
2. Video Block Diagram



3. Audio Block Diagram



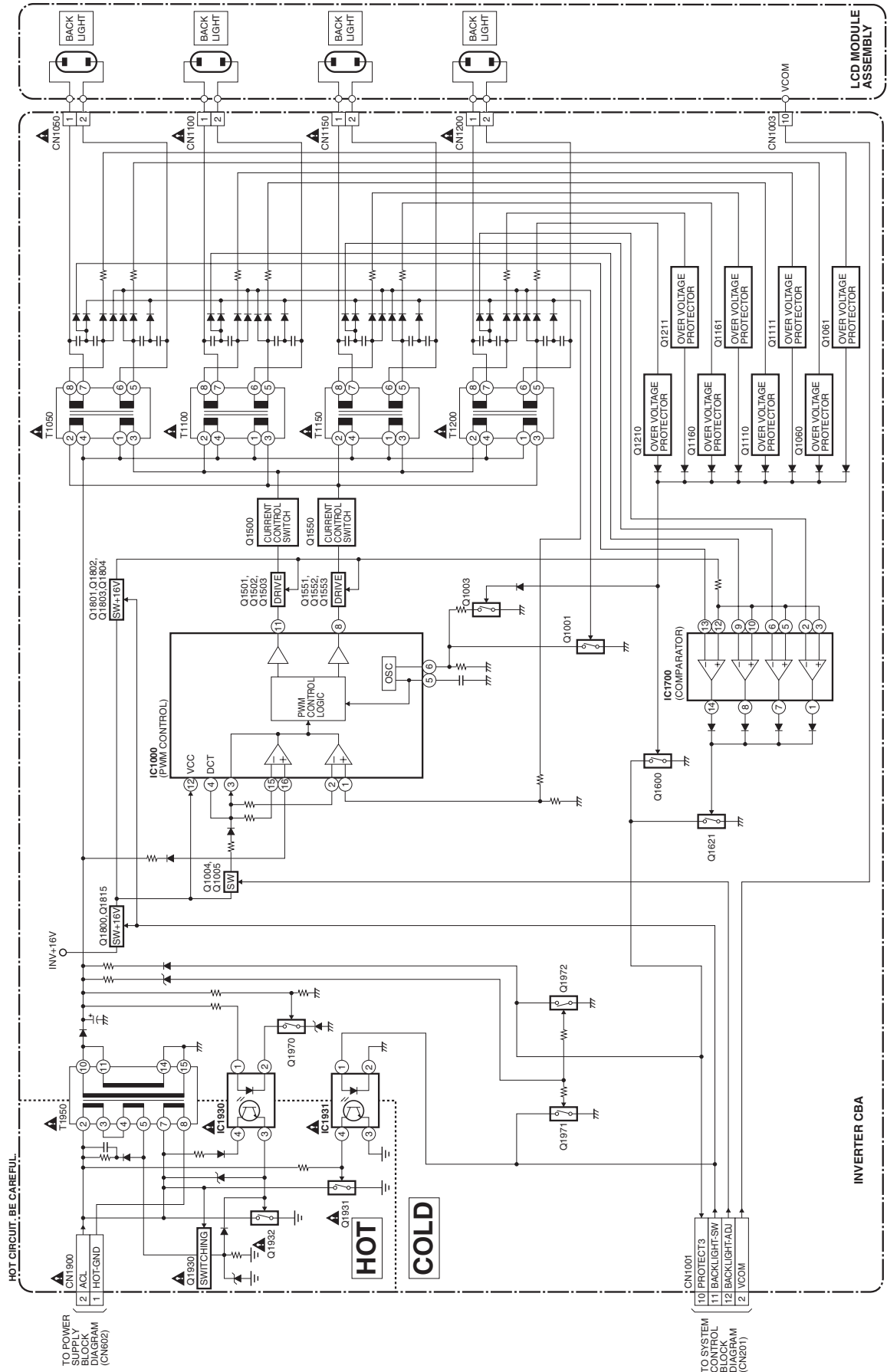
4. Digital Signal Process Block Diagram



5. Inverter Block Diagram

NOTE:

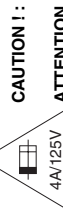
The voltage for parts in hot circuit is measured using hot GND as a common terminal.



6. Power Supply Block Diagram

CAUTION !

Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F601) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in the power supply circuit to fail.

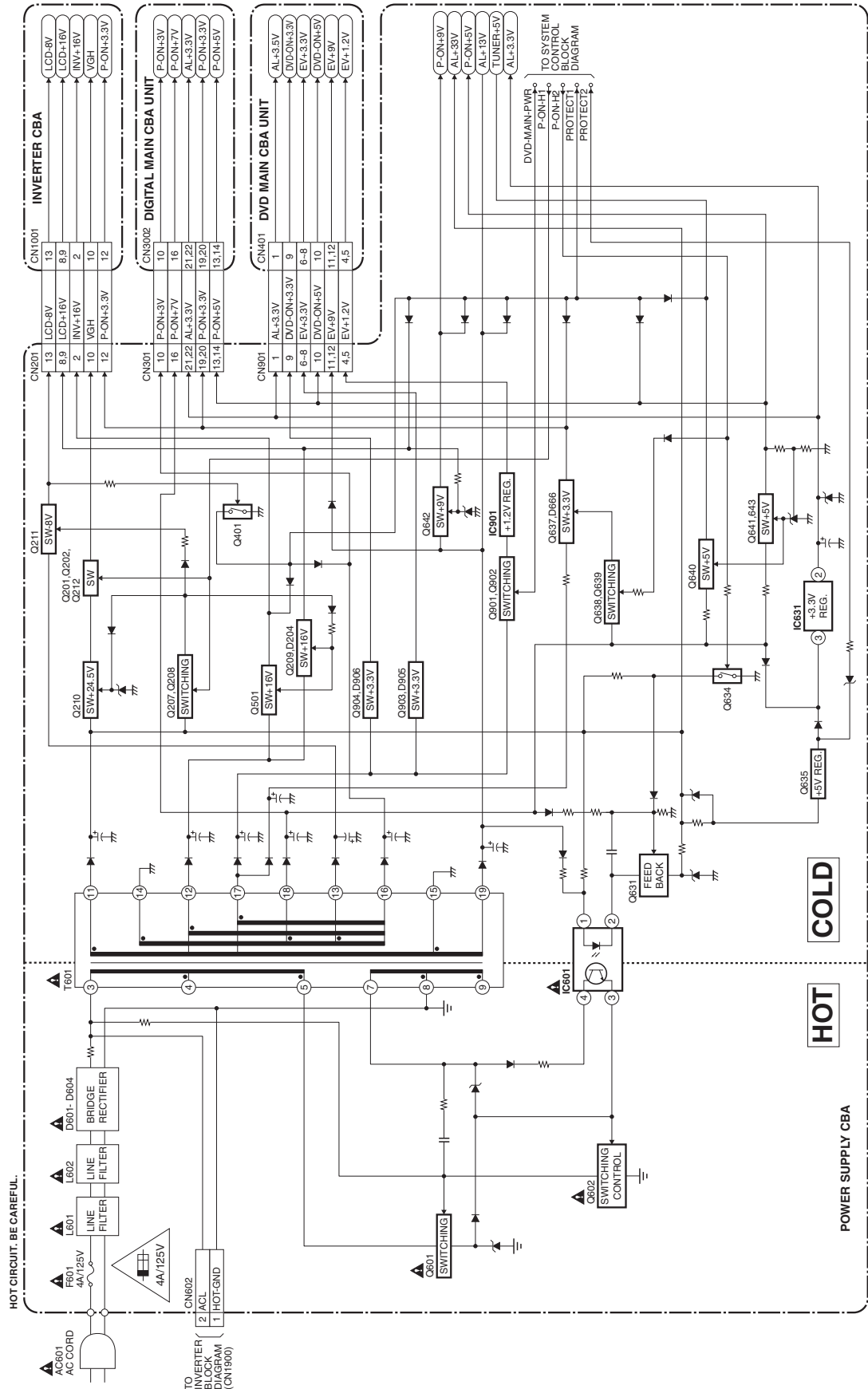


CAUTION ! : For continued protection against risk of fire,
replace only with same type 4 A, 125V fuse.

ATTENTION : Utiliser un fusible de rechange de même type de 4A, 125V.

NOTE:

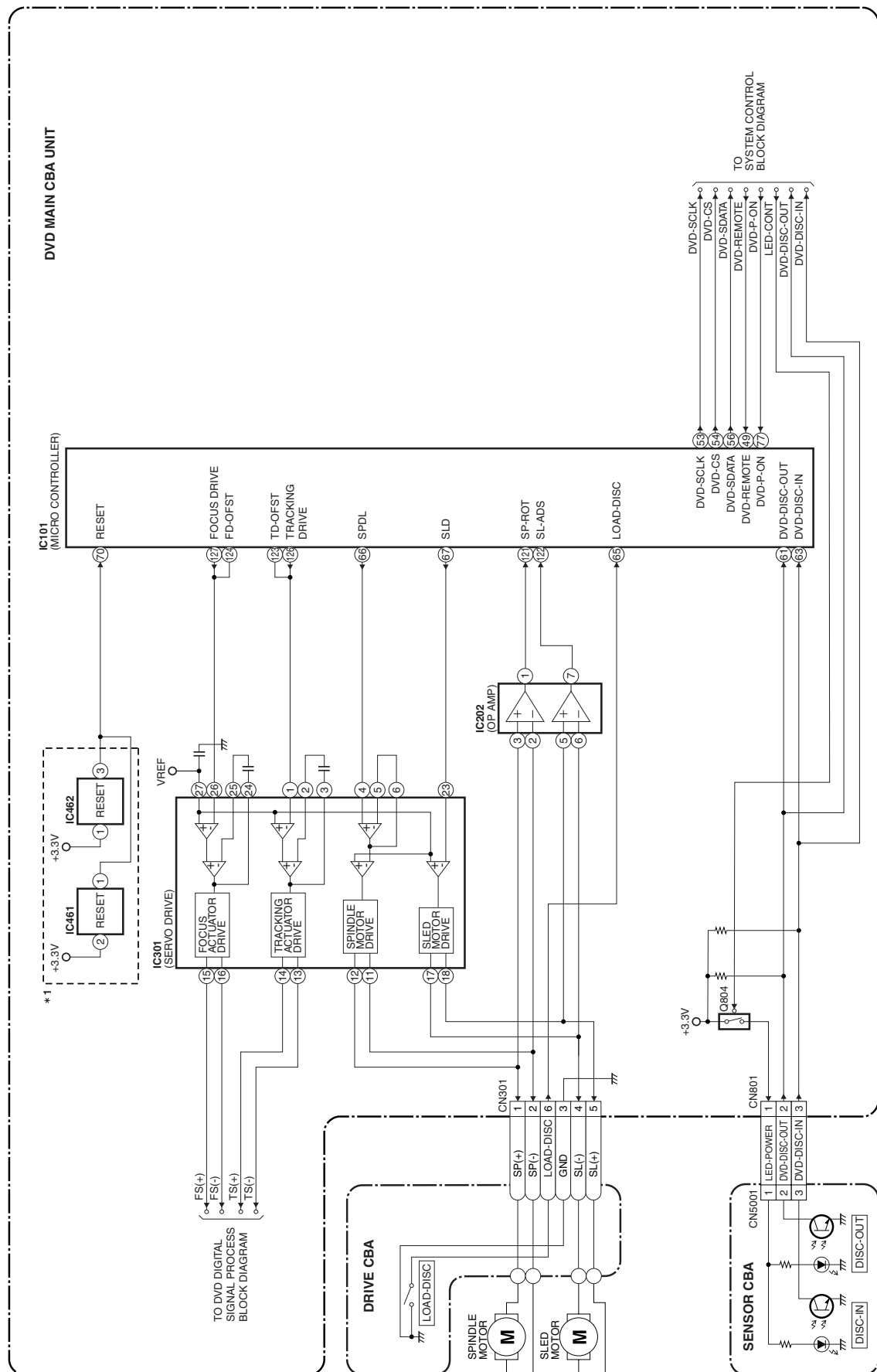
The voltage for parts in hot circuit is measured using
hot GND as a common terminal.



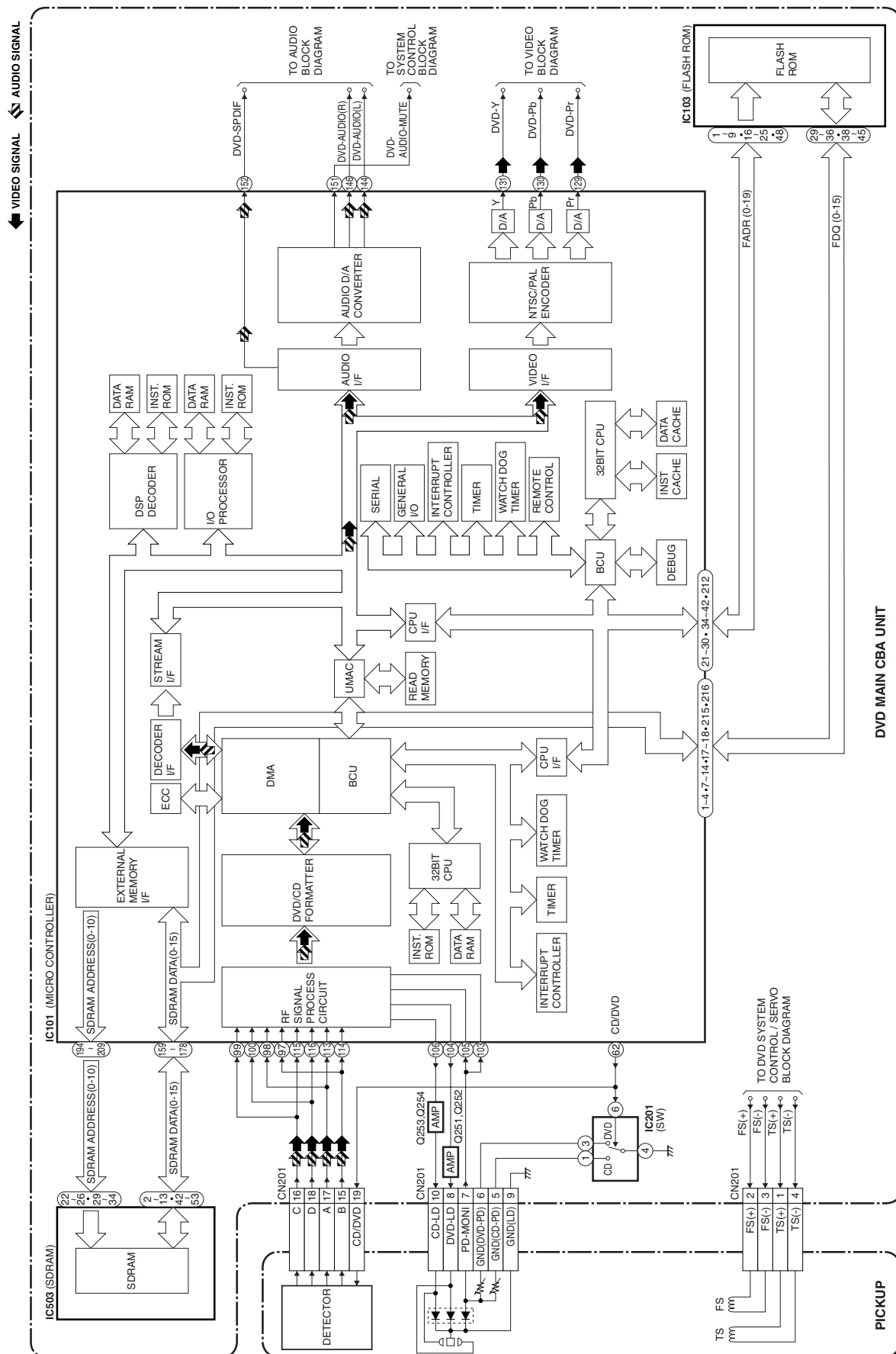
7. DVD System Control / Servo Block Diagram

*1 NOTE:

Either IC461 or IC462 is used for DVD MAIN CBA UNIT.



8. DVD Digital Signal Process Block Diagram



SCHEMATIC DIAGRAMS / CBA AND TEST POINTS

Standard Notes

WARNING

Many electrical and mechanical parts in this chassis have special characteristics. These characteristics often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the mark “▲” in the schematic diagram and the parts list. Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

Notes:

1. Do not use the part number shown on these drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since these drawings were prepared.
2. All resistance values are indicated in ohms ($K = 10^3$, $M = 10^6$).
3. Resistor wattages are 1/4W or 1/6W unless otherwise specified.
4. All capacitance values are indicated in μF ($P = 10^{-6} \mu F$).
5. All voltages are DC voltages unless otherwise specified.
6. This schematic diagrams are masterized version that should cover the entire FL11.11 chassis models.
Thus some parts in detail illustrated on this schematic diagrams may vary depend on the model within the FL11.11 chassis.
Please refer to the parts lists for each models.
7. The Circuit Board layout illustrated on this service manual is the latest version for this chassis at the moment of making this service manual.
Depend on the mass production date of each model, the actual layout of each Board may differ slightly from this version.

LIST OF CAUTION, NOTES, AND SYMBOLS USED IN THE SCHEMATIC DIAGRAMS ON THE FOLLOWING PAGES:

1. CAUTION:

CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE_A,_V FUSE.

ATTENTION: UTILISER UN FUSIBLE DE RECHANGE DE MÊME TYPE DE_A,_V.

2. CAUTION:

Fixed Voltage (or Auto voltage selectable) power supply circuit is used in this unit.

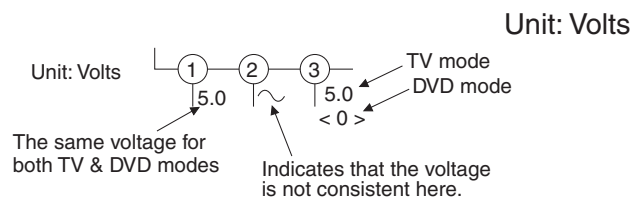
If Main Fuse (F601) is blown, first check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

3. Note:

- Do not use the part number shown on the drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since the drawings were prepared.
- To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list section of the service manual.

4. Voltage indications on the schematics are as shown below:

Plug the TV power cord into a standard AC outlet.:



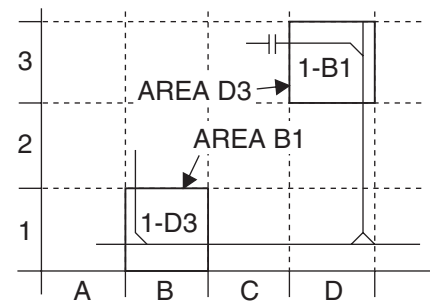
5. How to read converged lines

1-D3

 Distinction Area
 Line Number
 (1 to 3 digits)

Examples:

- "1-D3" means that line number "1" goes to the line number "1" of the area "D3".
- "1-B1" means that line number "1" goes to the line number "1" of the area "B1".



6. Test Point Information

- : Indicates a test point with a jumper wire across a hole in the PCB.
- : Used to indicate a test point with a component lead on foil side.
- : Used to indicate a test point with no test pin.
- : Used to indicate a test point with a test pin.

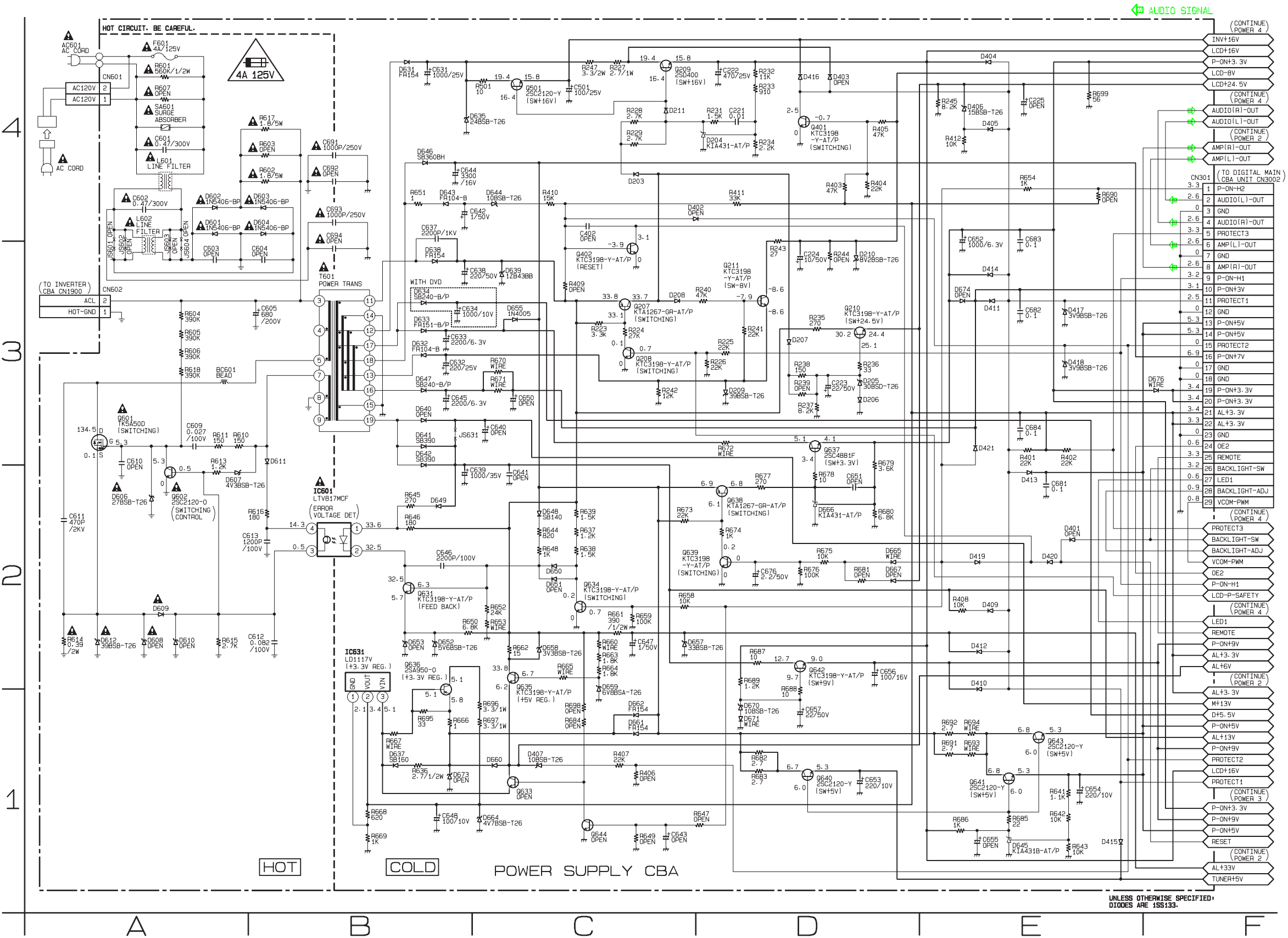
The reference number of parts on Schematic Diagrams/CBA can be retrieved by application search function.

Power Supply 1 Schematic Diagram

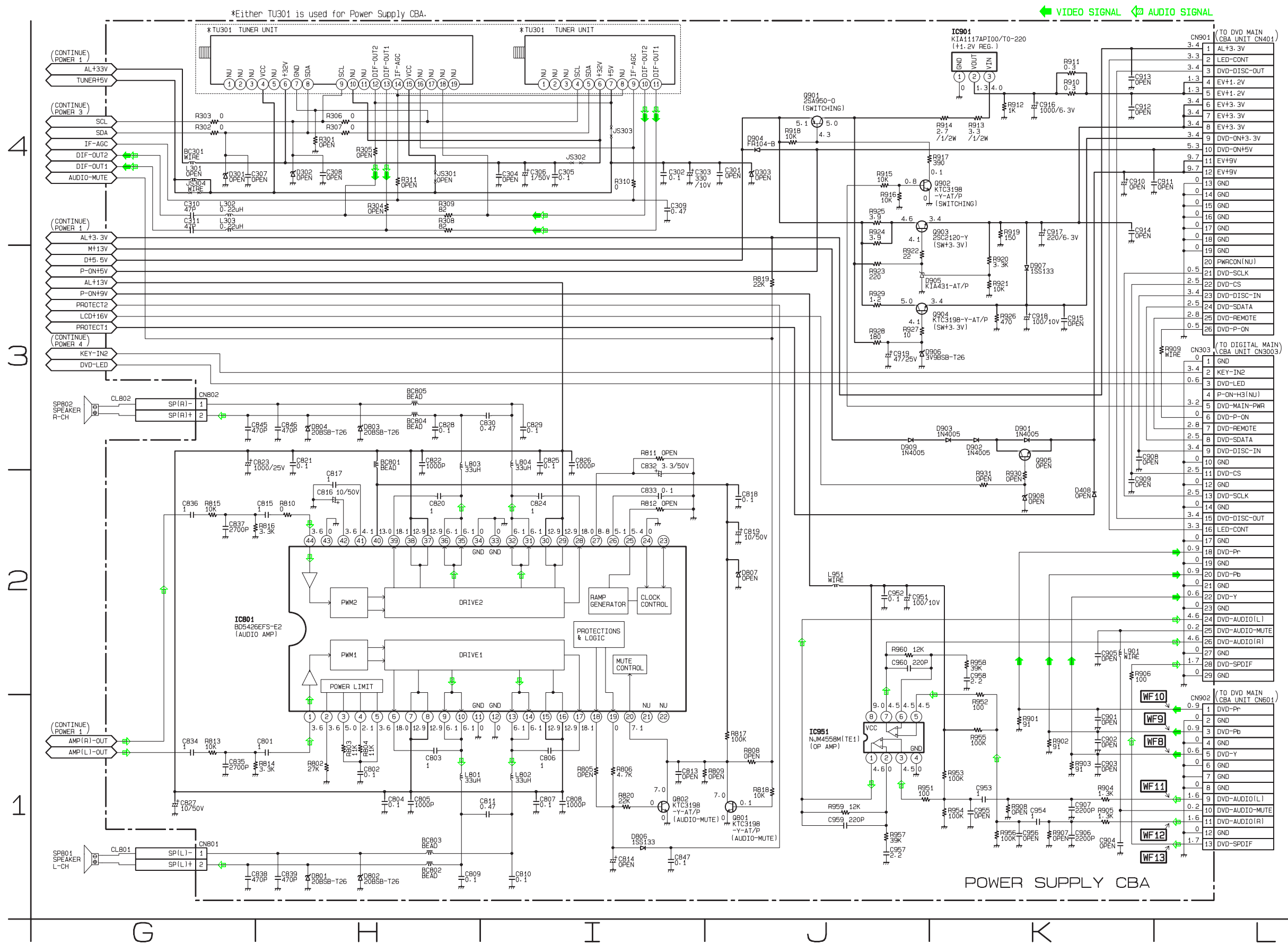
CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F601) is blown , check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in the power supply circuit to fail.

CAUTION ! : For continued protection against risk of fire,
replace only with same type 4 A, 125V fuse.
ATTENTION : Utiliser un fusible de rechange de même type de 4A, 125V.

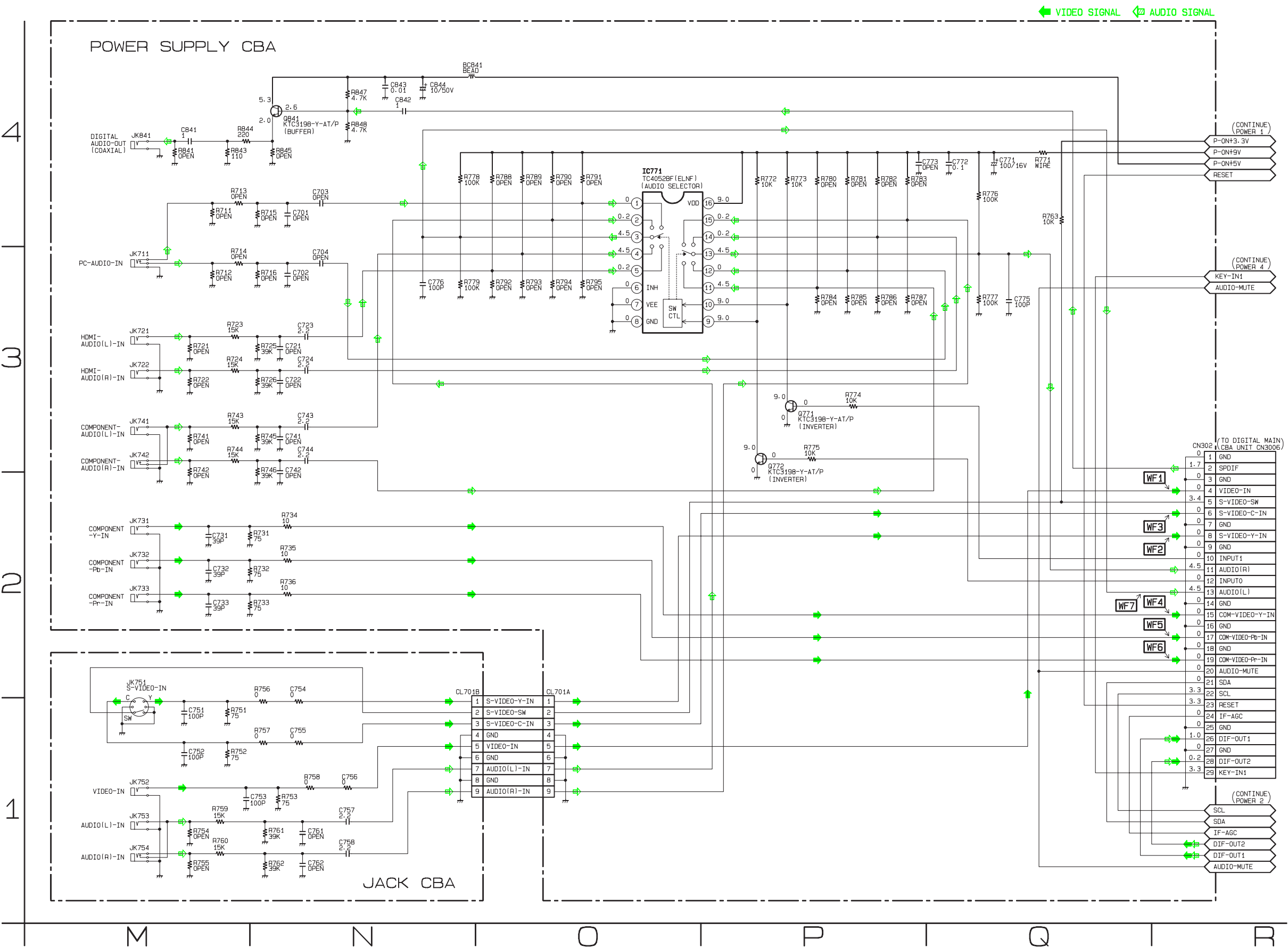
NOTE:
The voltage for parts in hot circuit is measured using
hot GND as a common terminal.



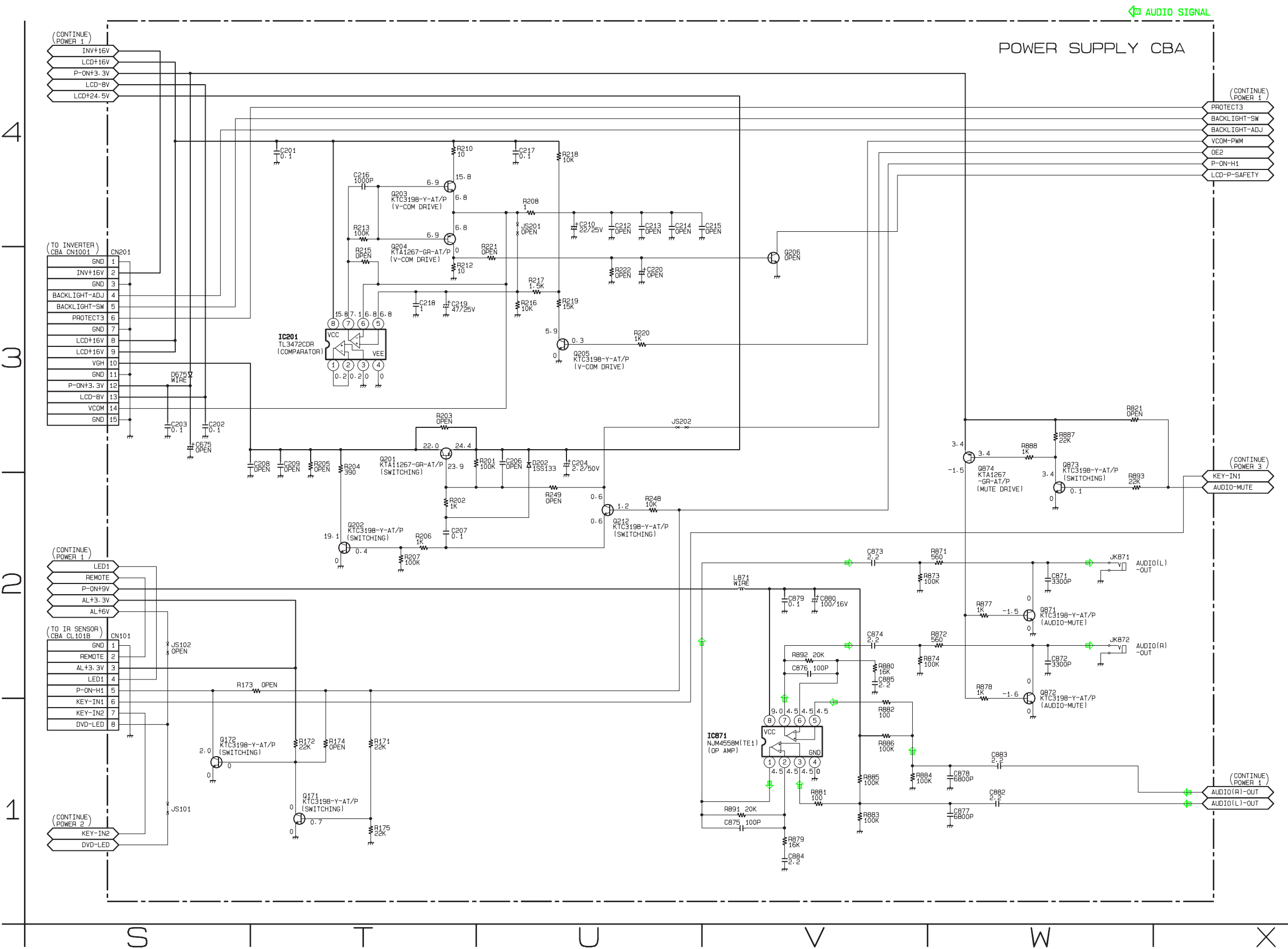
Power Supply 2 Schematic Diagram



Power Supply 3 & Jack Schematic Diagram



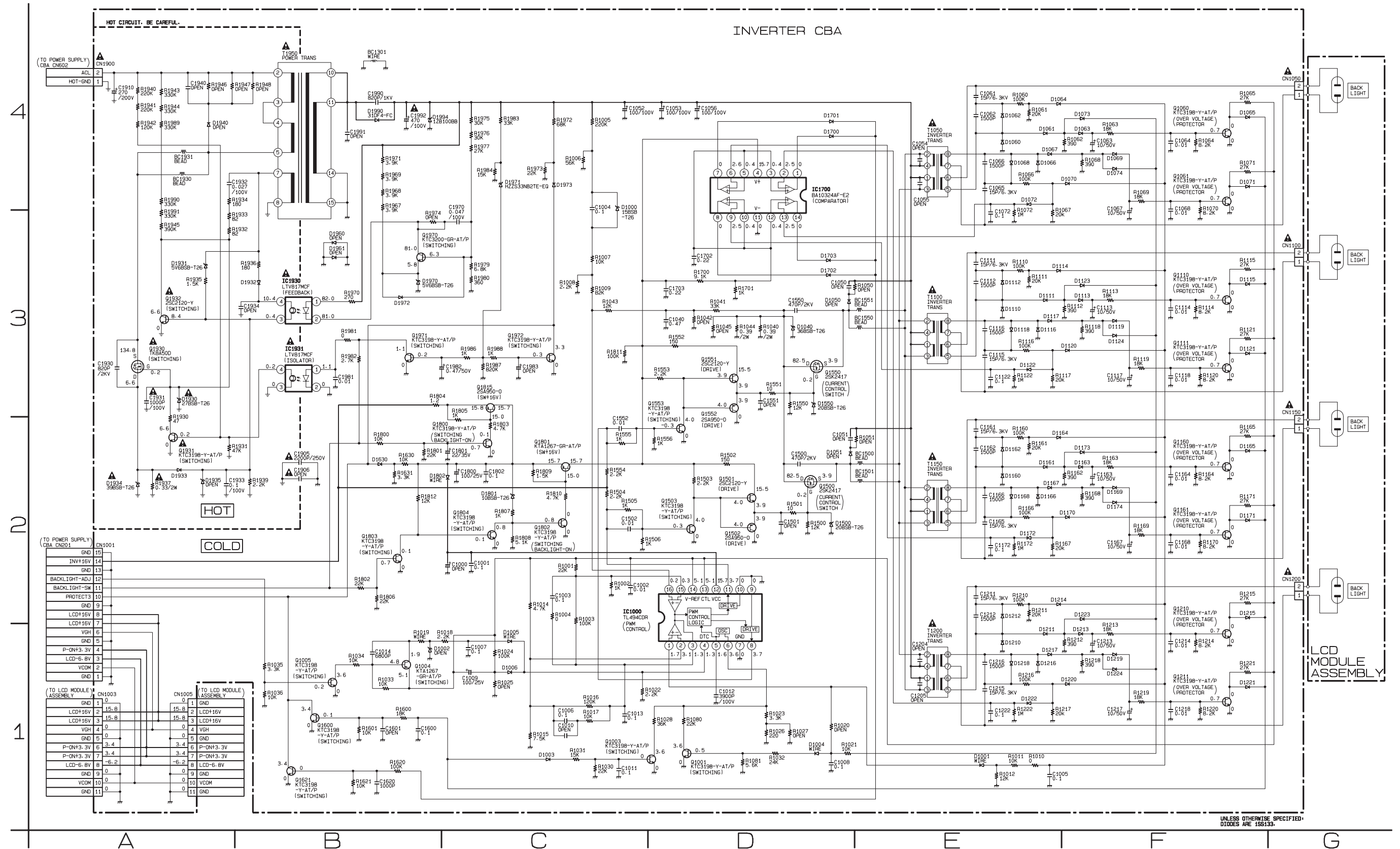
Power Supply 4 Schematic Diagram



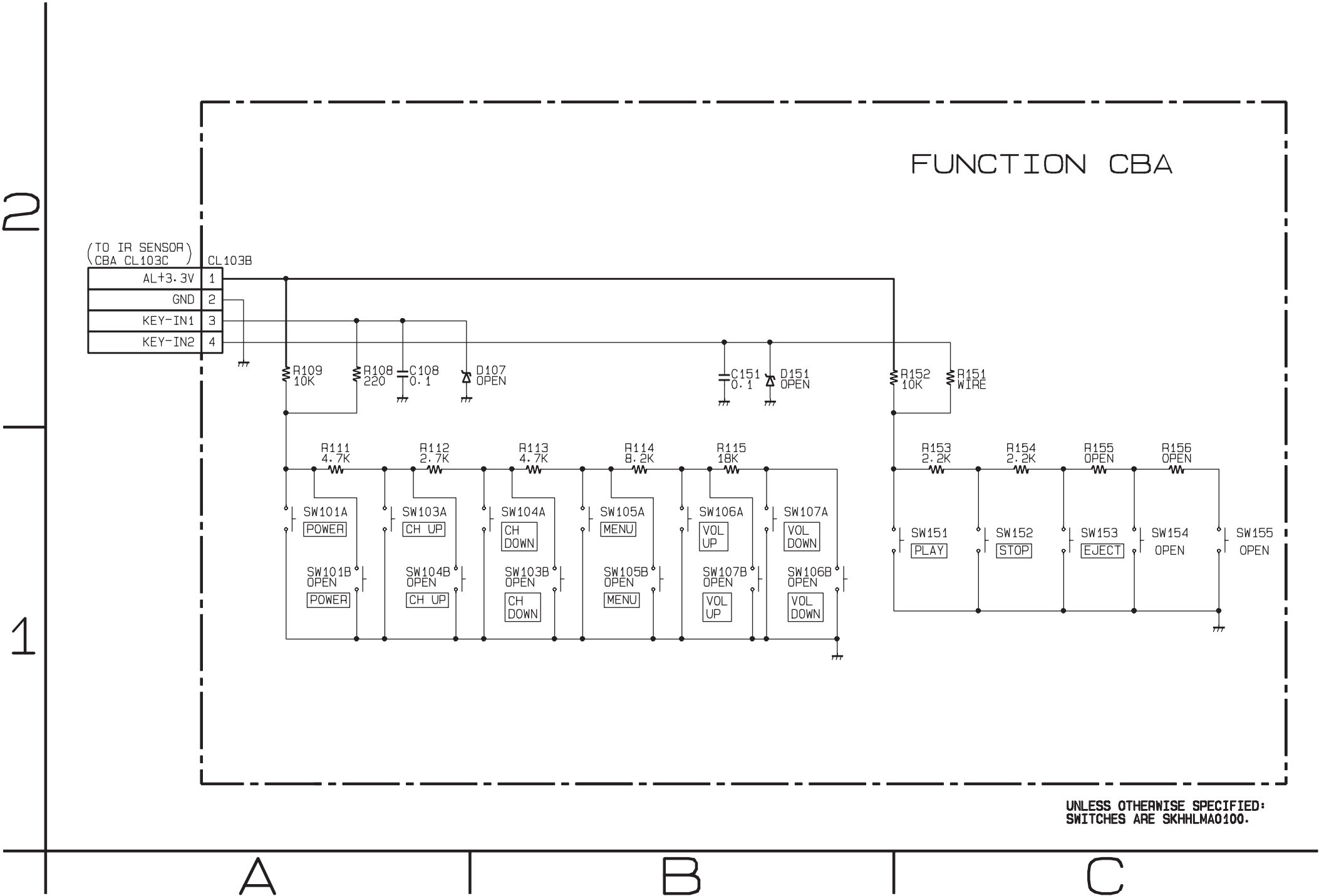
Inverter Schematic Diagram

NOTE:

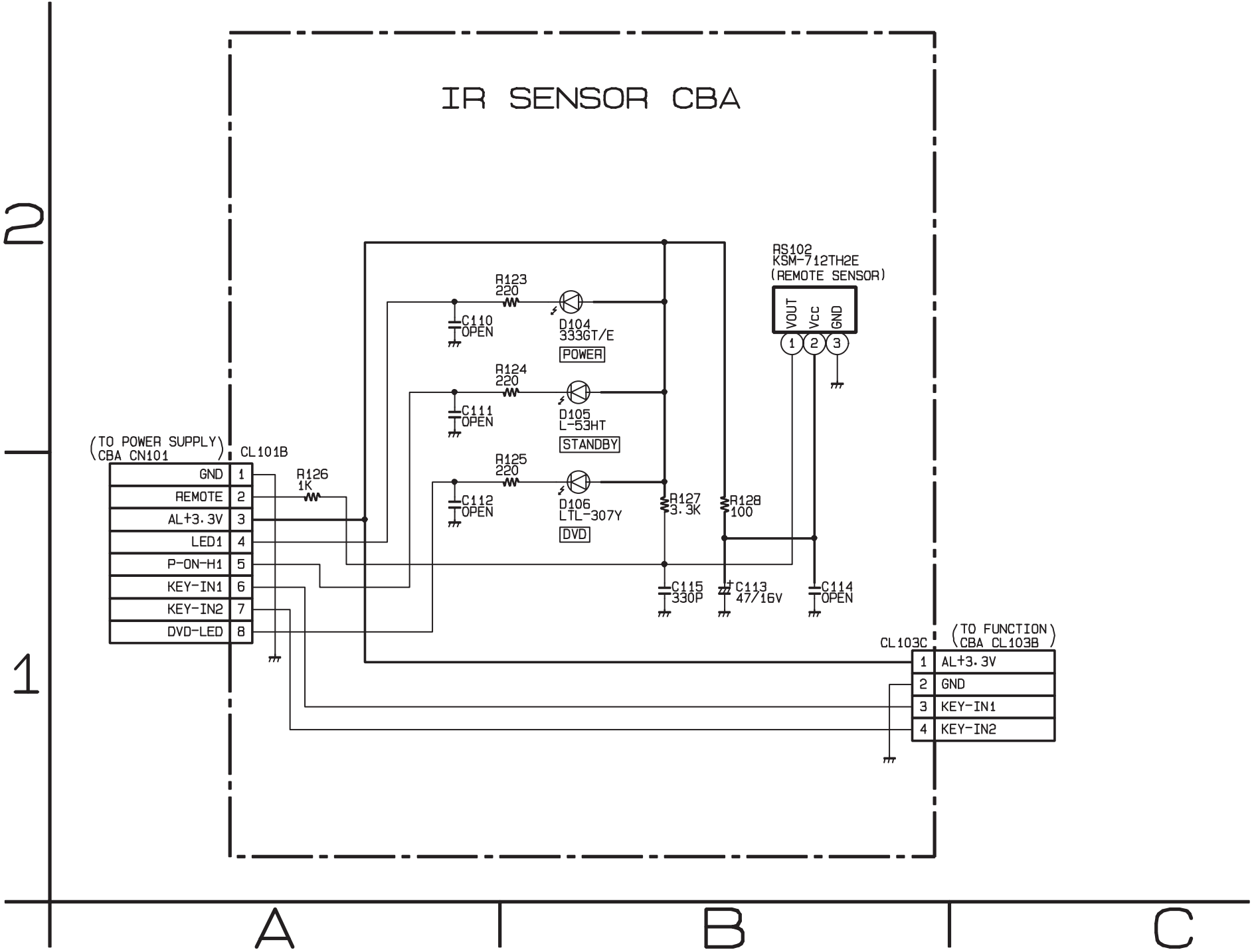
The voltage for parts in hot circuit is measured using hot GND as a common terminal.



Function Schematic Diagram



IR Sensor Schematic Diagram

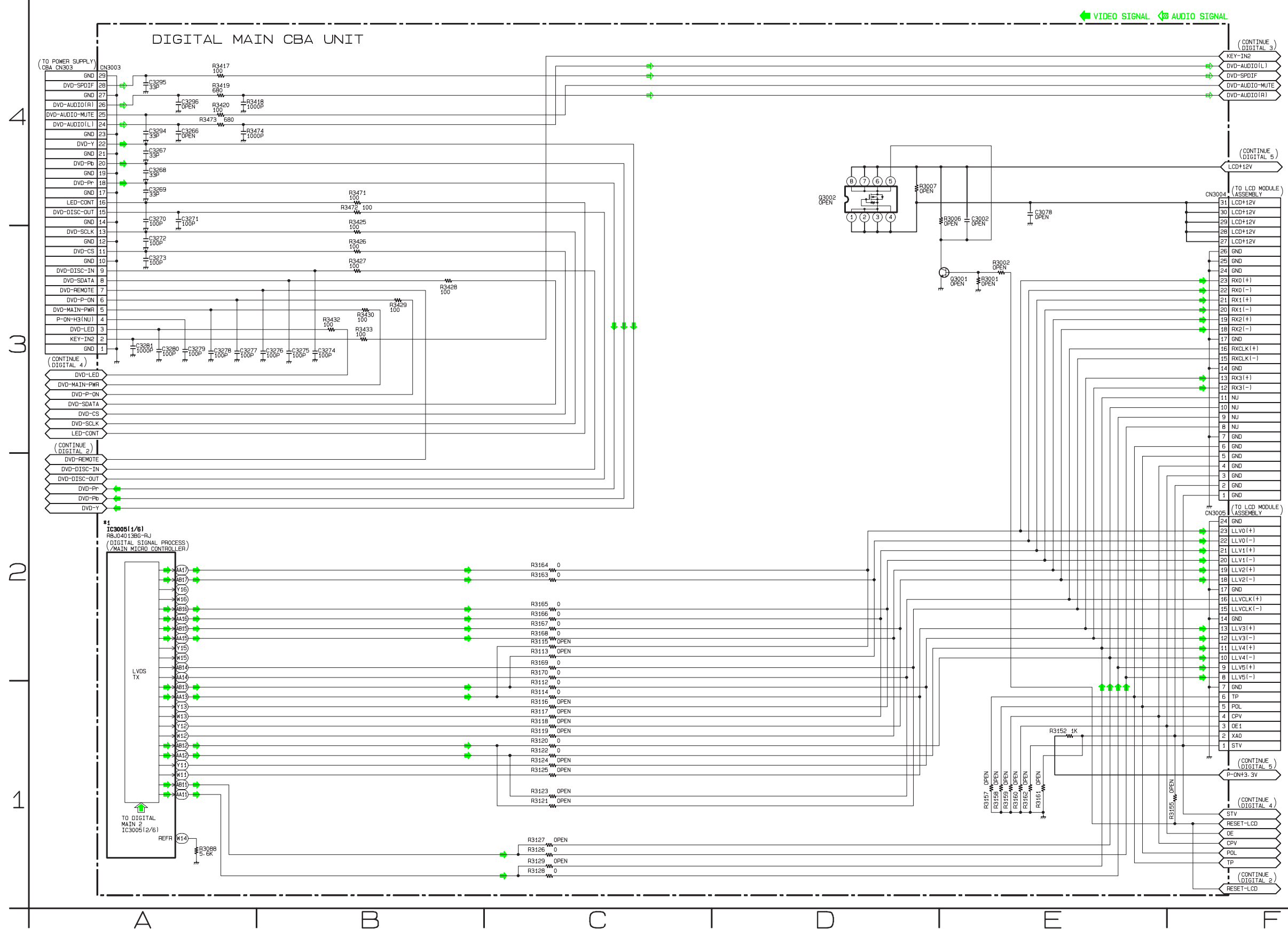


Digital Main 1 Schematic Diagram

***1 NOTE:**

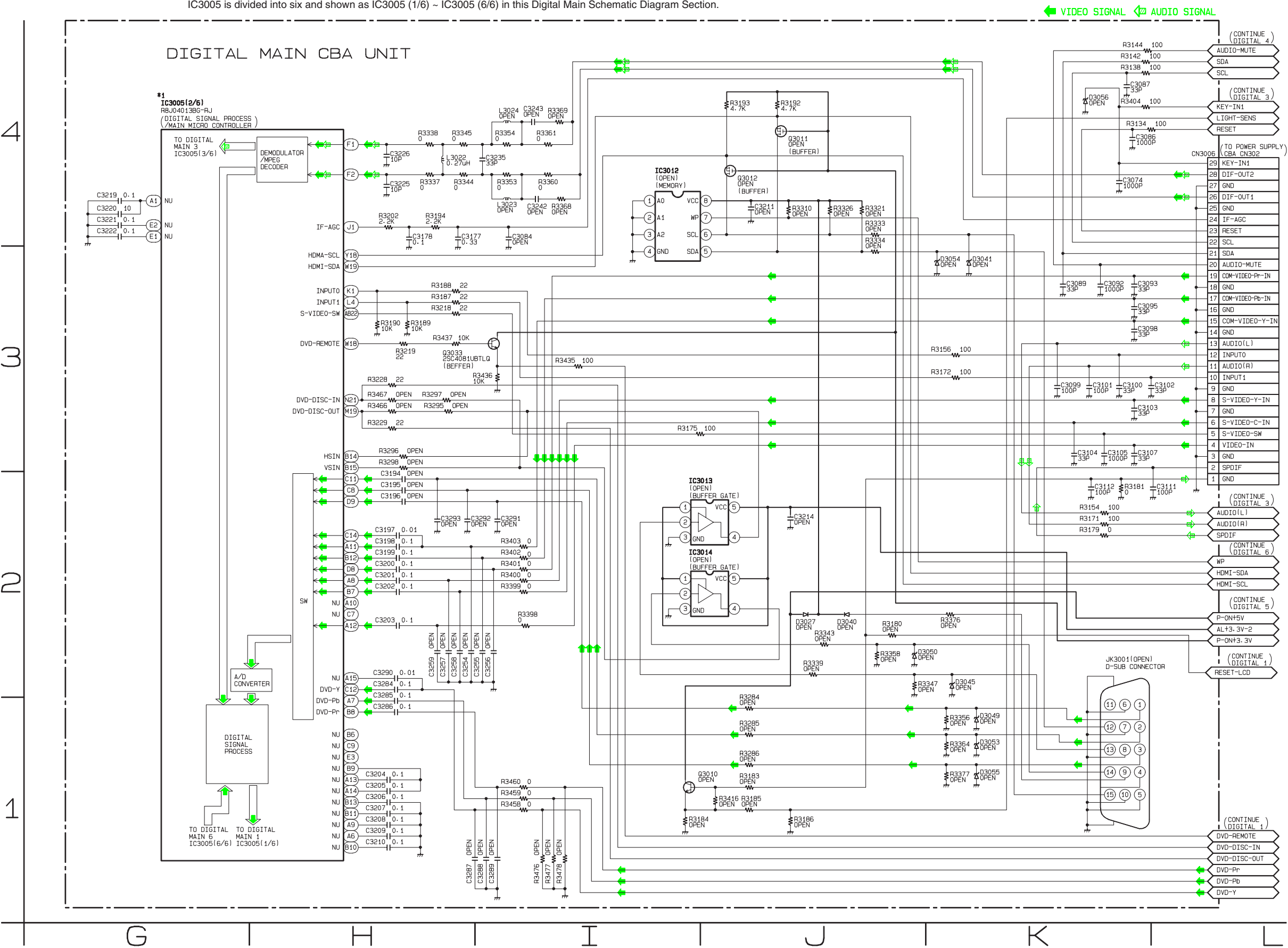
The order of pins shown in this diagram is different from that of actual IC3005.

IC3005 is divided into six and shown as IC3005 (1/6) ~ IC3005 (6/6) in this Digital Main Schematic Diagram Section.



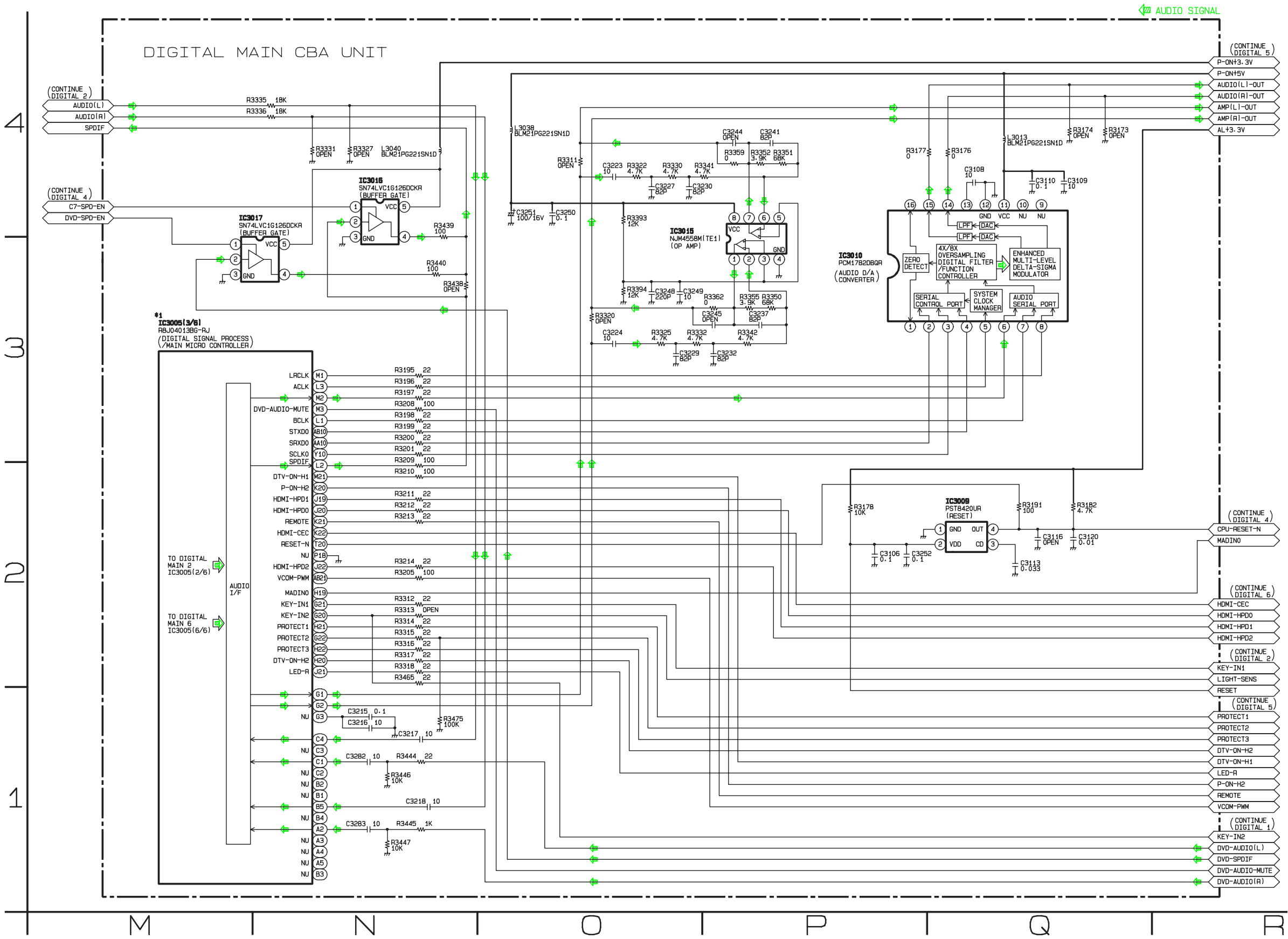
Digital Main 2 Schematic Diagram

*1 NOTE:
The order of pins shown in this diagram is different from that of actual IC3005.
IC3005 is divided into six and shown as IC3005 (1/6) ~ IC3005 (6/6) in this Digital Main Schematic Diagram Section.



Digital Main 3 Schematic Diagram

*1 NOTE:
The order of pins shown in this diagram is different from that of actual IC3005.
IC3005 is divided into six and shown as IC3005 (1/6) ~ IC3005 (6/6) in this Digital Main Schematic Diagram Section.



4

3

2



4

3

2

1

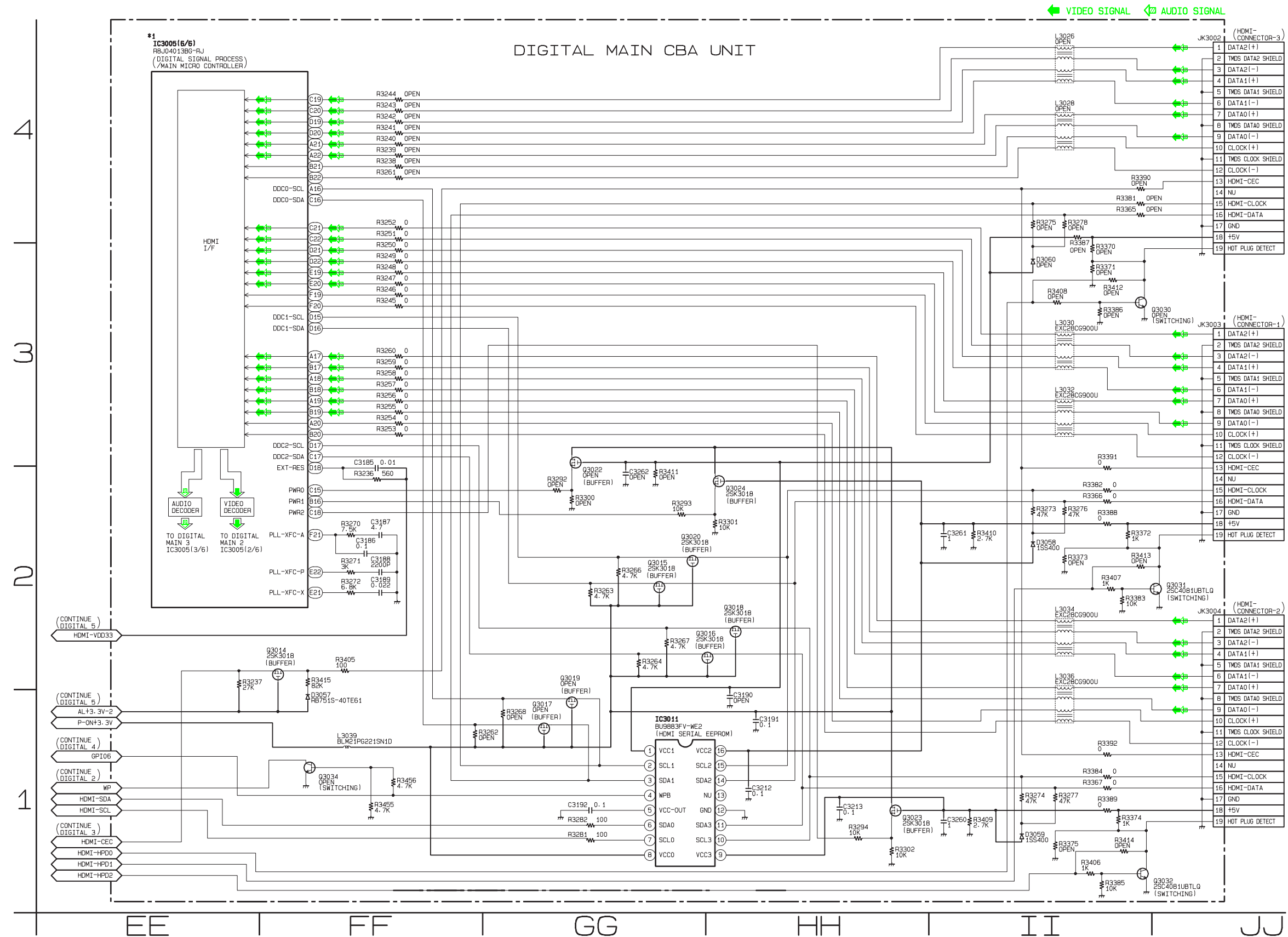


Digital Main 6 Schematic Diagram

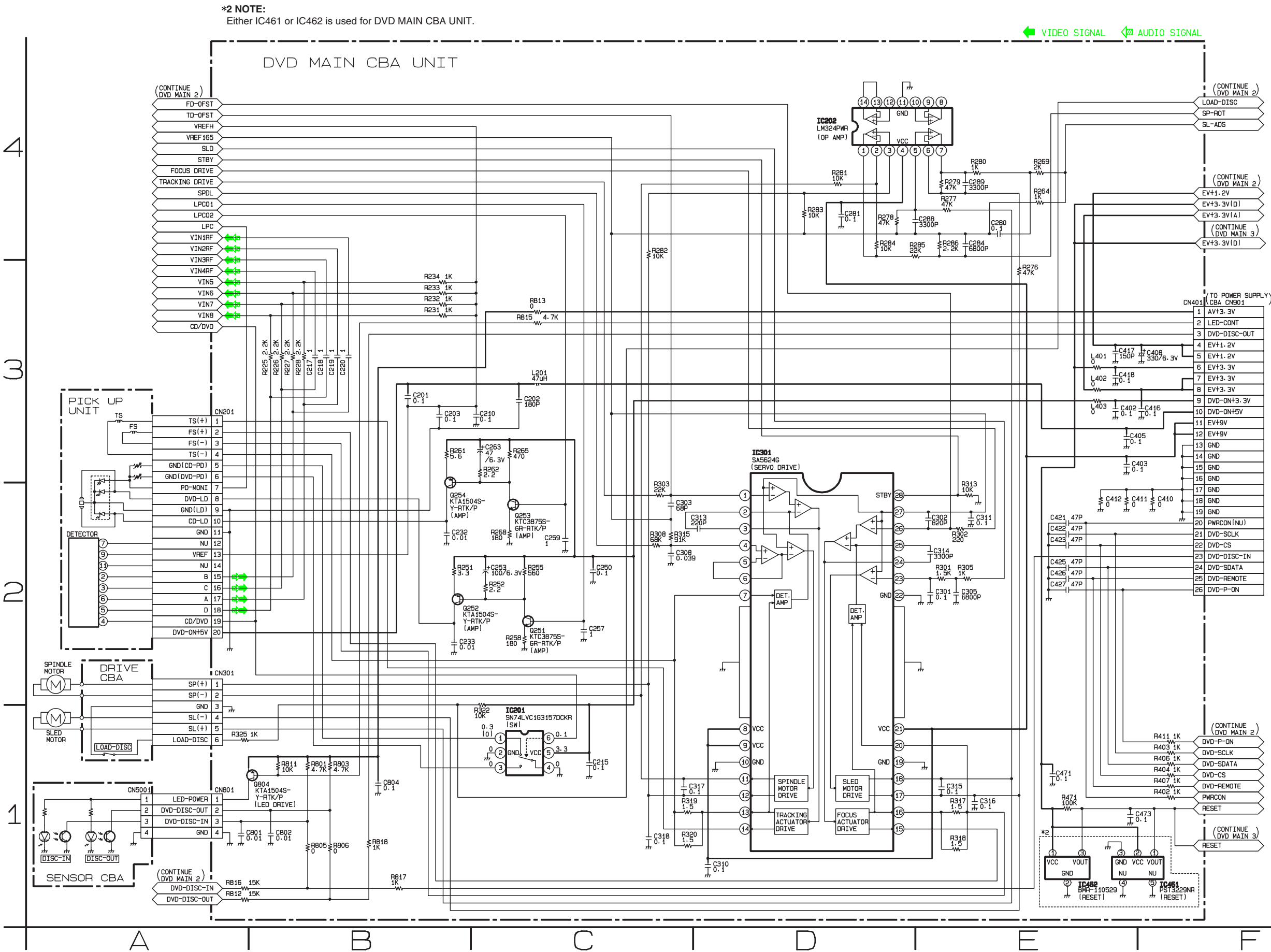
***1 NOTE:**

The order of pins shown in this diagram is different from that of actual IC3005.

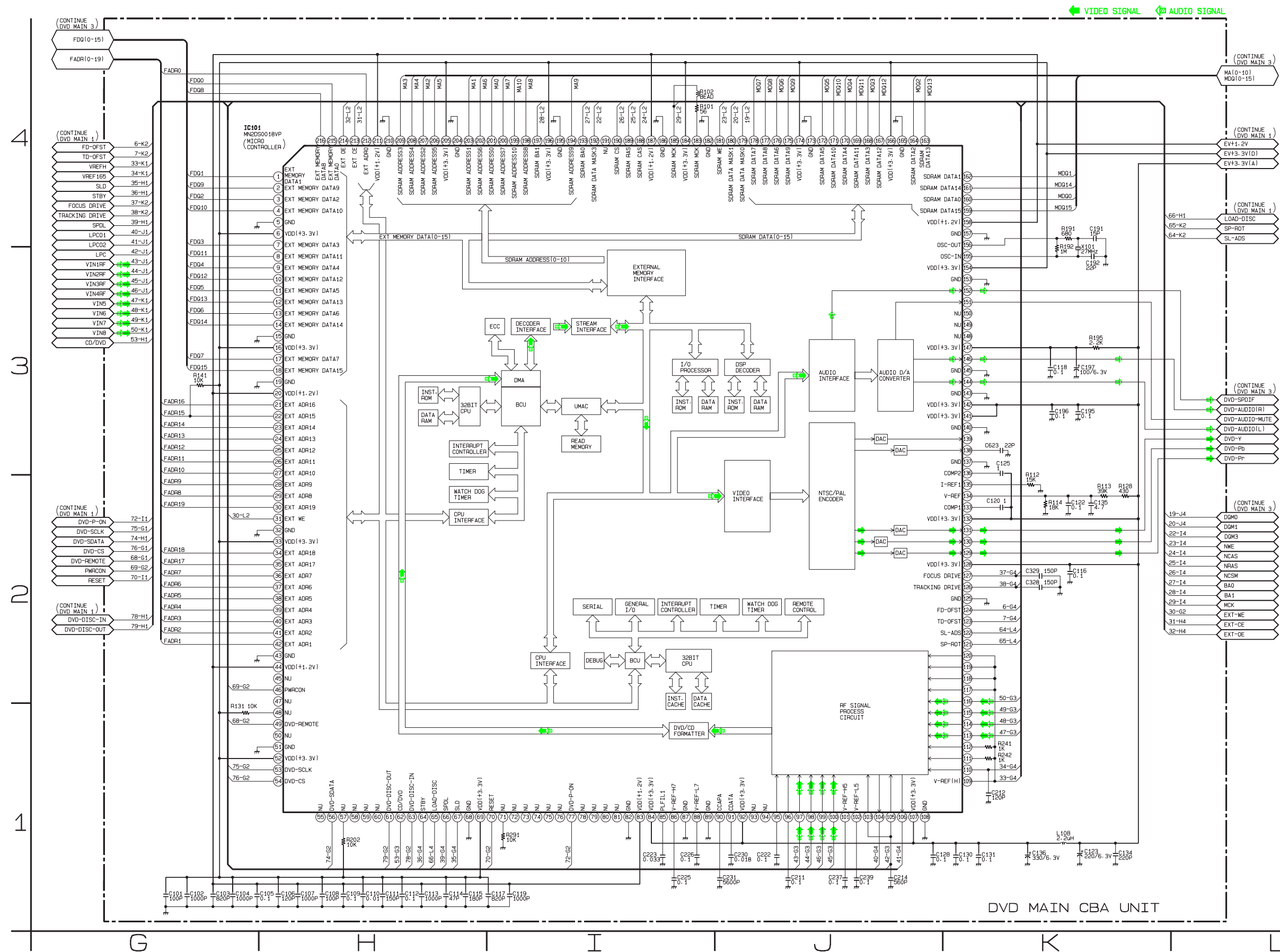
IC3005 is divided into six and shown as IC3005 (1/6) ~ IC3005 (6/6) in this Digital Main Schematic Diagram Section.



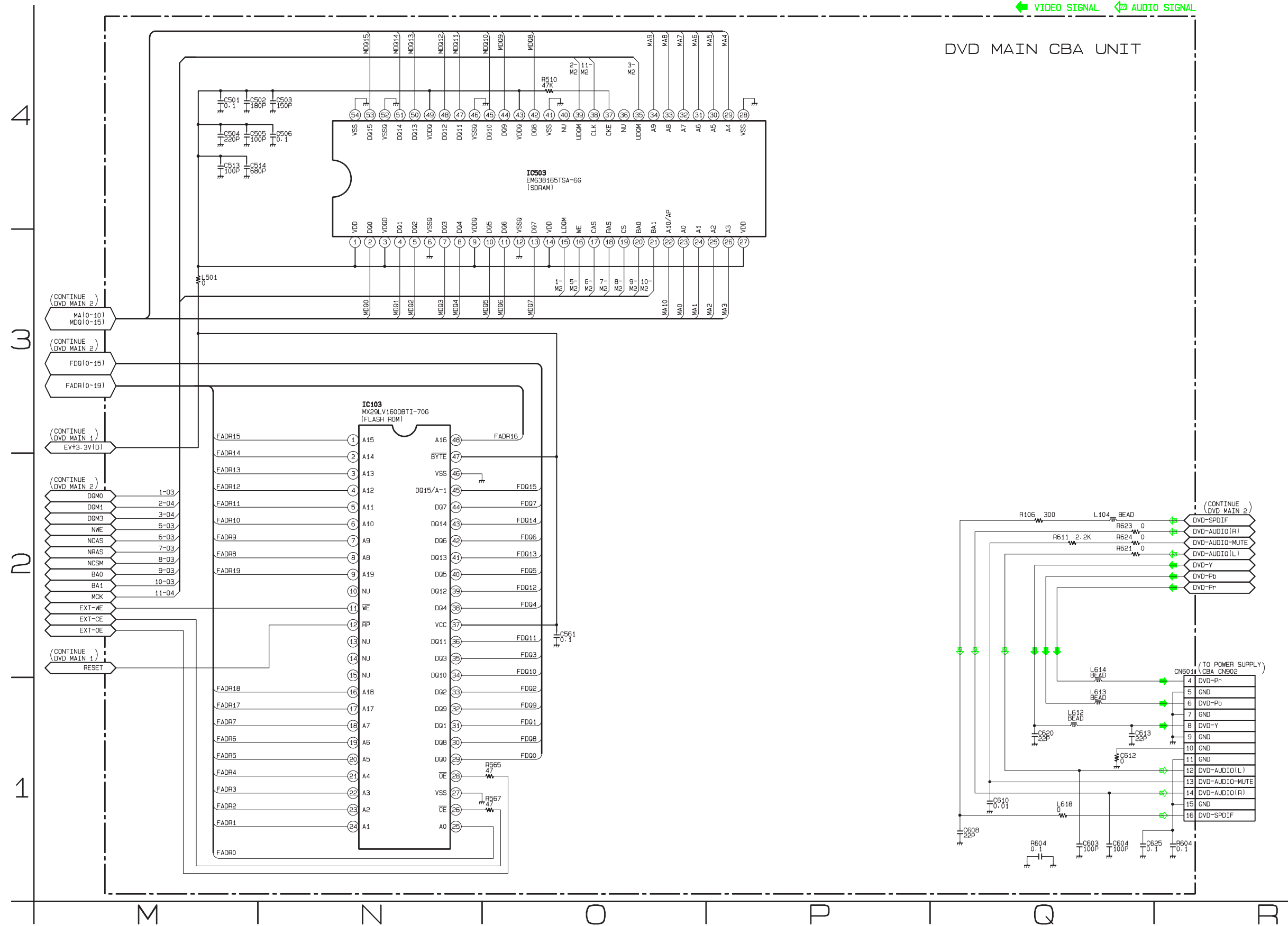
DVD Main 1 Schematic Diagram



DVD Main 2 Schematic Diagram



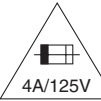
DVD Main 3 Schematic Diagram



Power Supply CBA & Jack CBA Top View

Because a hot chassis ground is present in the power supply circuit, an isolation transformer must be used when repairing. Also, in order to have the ability to increase the input slowly, when troubleshooting this type of power supply circuit, a variable isolation transformer is required.

CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F601) is blown , check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in the power supply circuit to fail.

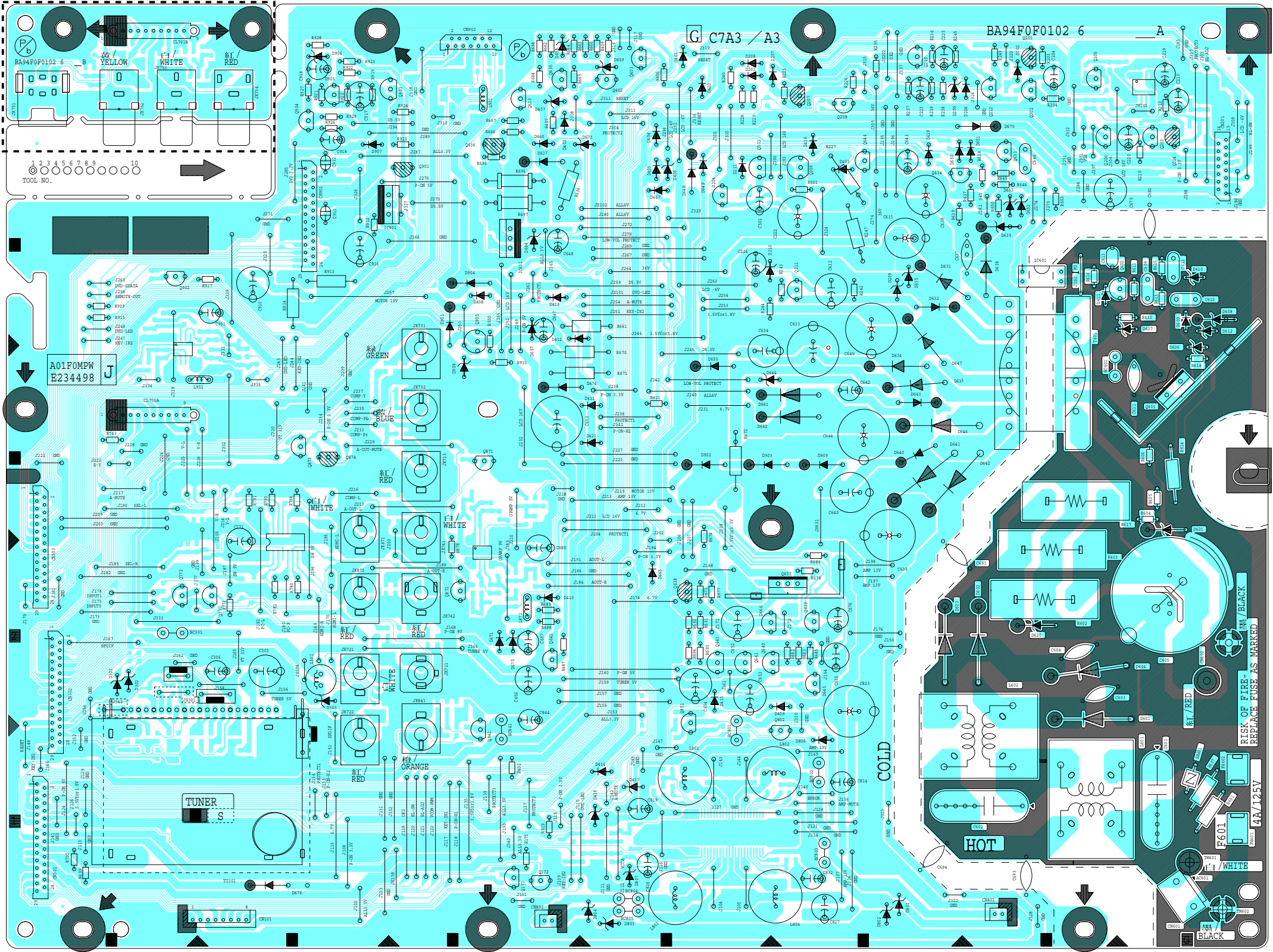


CAUTION ! : For continued protection against risk of fire, replace only with same type 4 A, 125V.
ATTENTION : Utiliser un fusible de rechange de même type de 4A, 125V.

NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

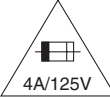
Jack CBA

Power Supply CBA



Power Supply CBA & Jack CBA Bottom View

Because a hot chassis ground is present in the power supply circuit, an isolation transformer must be used when repairing. Also, in order to have the ability to increase the input slowly, when troubleshooting this type of power supply circuit, a variable isolation transformer is required.



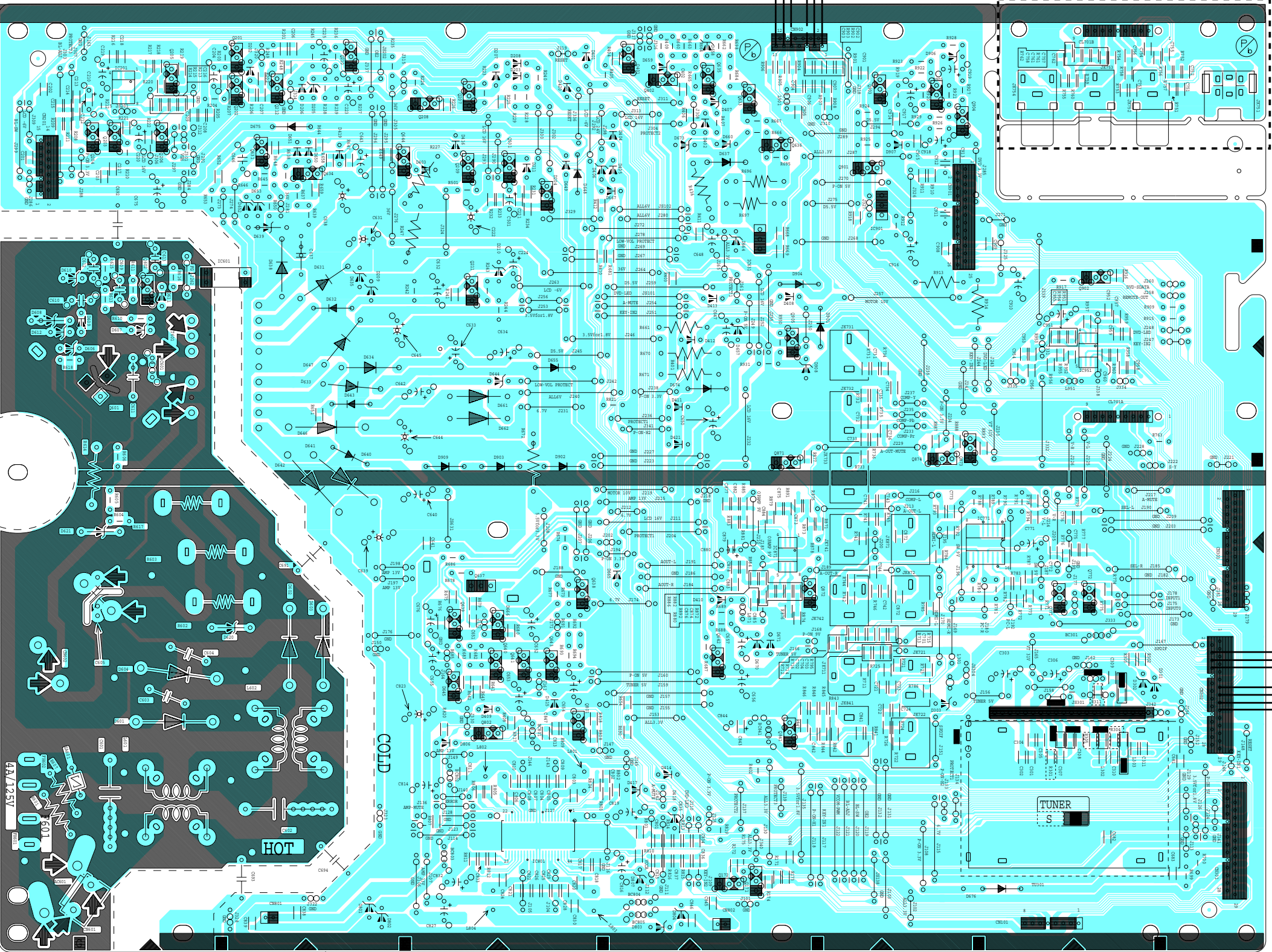
CAUTION ! : For continued protection against risk of fire, replace only with same type 4 A, 125V.
ATTENTION : Utiliser un fusible de rechange de même type de 4A, 125V.

CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit. If Main Fuse (F601) is blown , check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

Power Supply CBA

Jack CBA

NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.



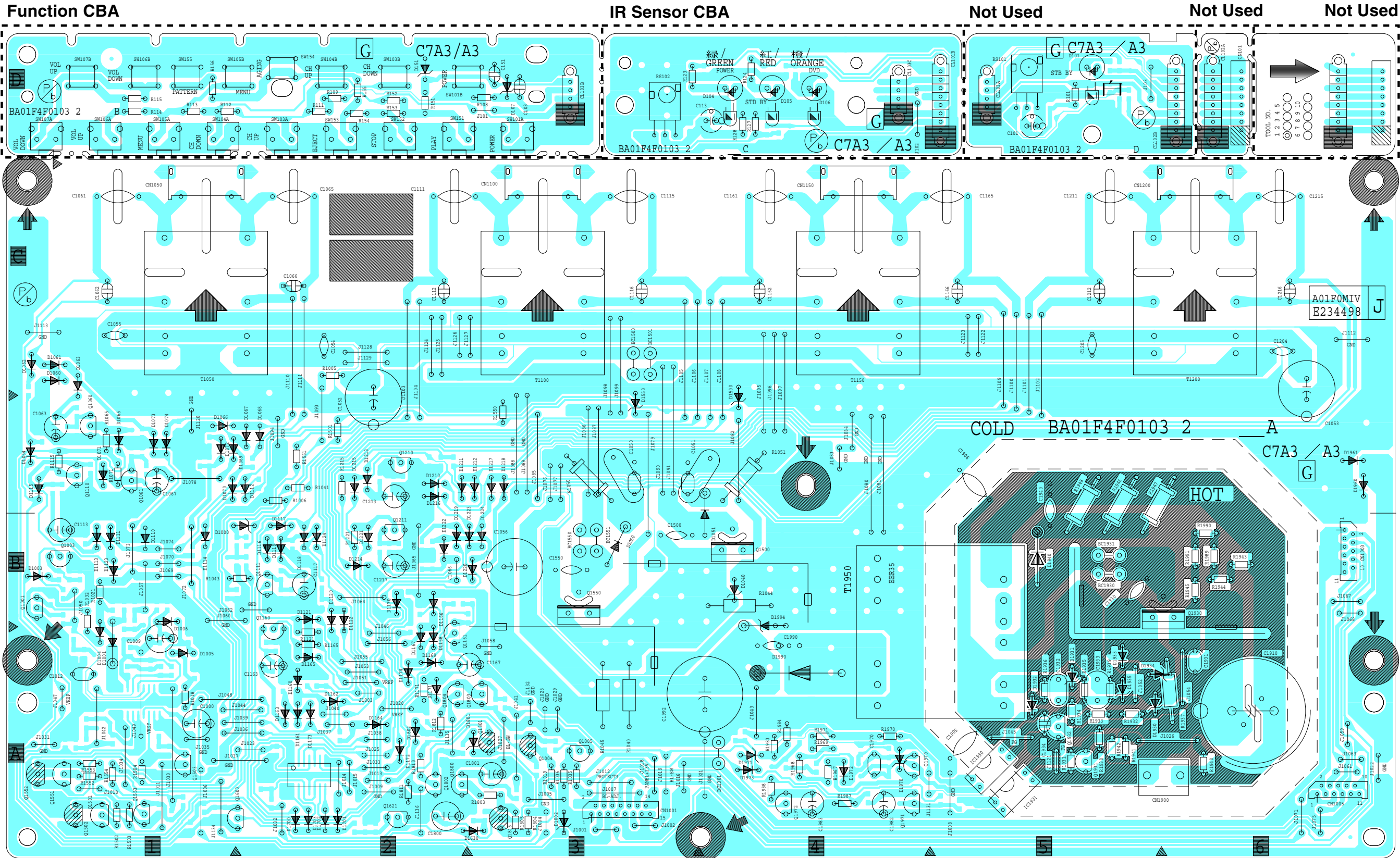
- WF13
PIN 13 OF
CN902
- WF12
PIN 11 OF
CN902
- WF11
PIN 9 OF
CN902
- WF8
PIN 5 OF
CN902
- WF9
PIN 3 OF
CN902
- WF10
PIN 1 OF
CN902

- WF1
PIN 4 OF
CN302
- WF3
PIN 6 OF
CN302
- WF2
PIN 8 OF
CN302
- WF7
PIN 13 OF
CN302
- WF4
PIN 15 OF
CN302
- WF5
PIN 17 OF
CN302
- WF6
PIN 19 OF
CN302

Inverter CBA, Function CBA & IR Sensor CBA Top View

NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

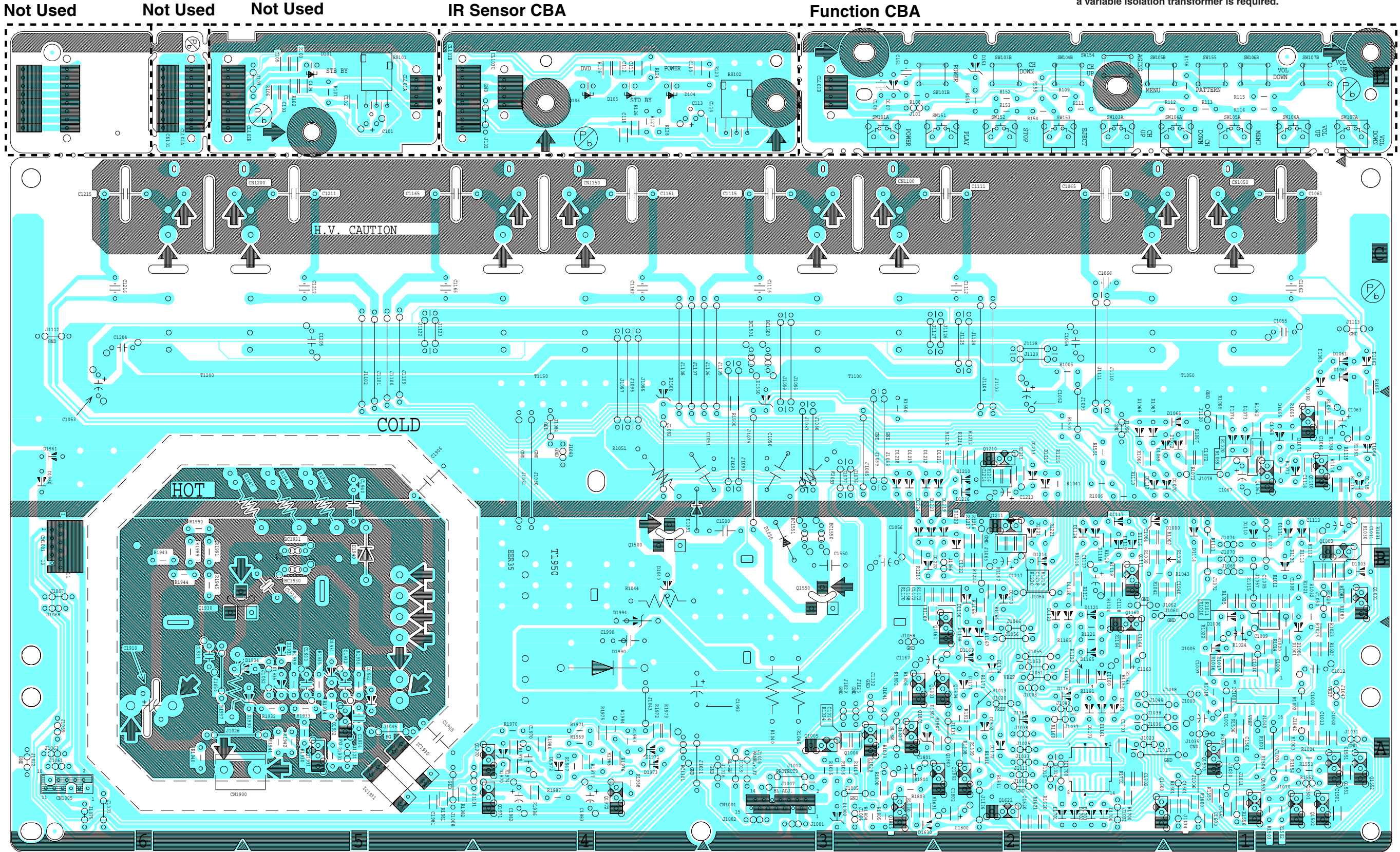
Because a hot chassis ground is present in the power supply circuit, an isolation transformer must be used when repairing. Also, in order to have the ability to increase the input slowly, when troubleshooting this type of power supply circuit, a variable isolation transformer is required.



Inverter CBA, Function CBA & IR Sensor CBA Bottom View

NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

Because a hot chassis ground is present in the power supply circuit, an isolation transformer must be used when repairing. Also, in order to have the ability to increase the input slowly, when troubleshooting this type of power supply circuit, a variable isolation transformer is required.

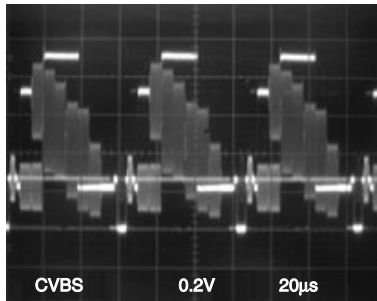


WAVEFORMS

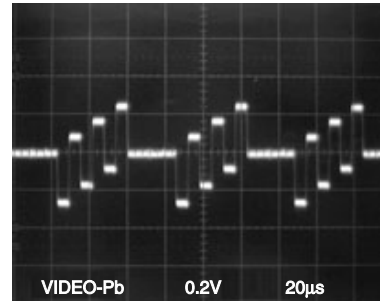
WF1 ~ WF7 = Waveforms to be observed at
Waveform check points.
(Shown in Schematic Diagram.)

Input: NTSC Color Bar Signal (with 1kHz Audio Signal)

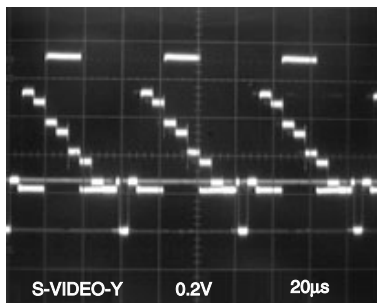
WF1 Pin 4 of CN302



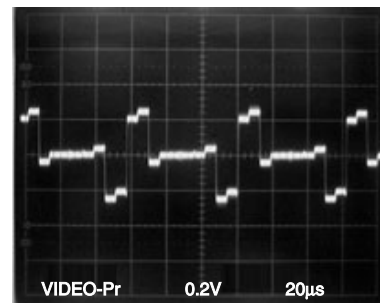
WF5 Pin 17 of CN302



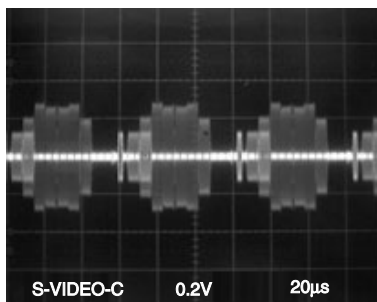
WF2 Pin 8 of CN302



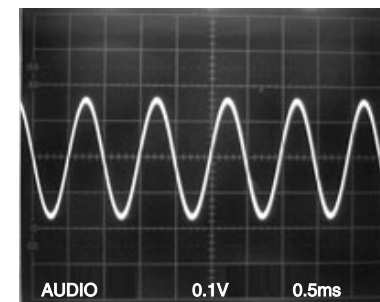
WF6 Pin 19 of CN302



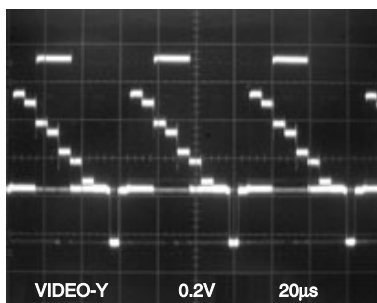
WF3 Pin 6 of CN302



WF7 Pin 13 of CN302



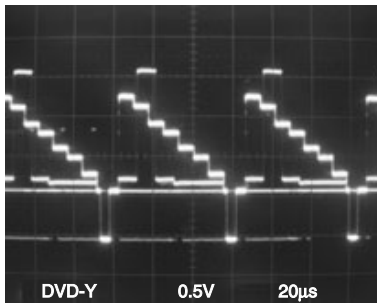
WF4 Pin 15 of CN302



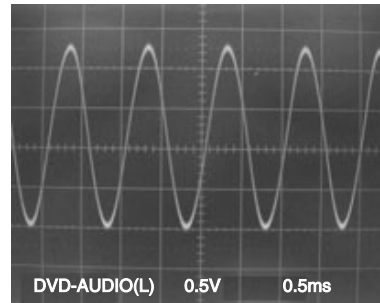
WF8 ~ WF13 = Waveforms to be observed at
Waveform check points.
(Shown in Schematic Diagram.)

Input: NTSC Color Bar Signal (with 1kHz Audio Signal)
DVD Video (Play MODE)

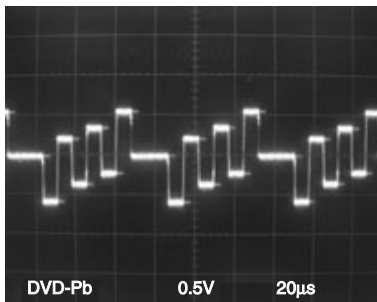
WF8 Pin 5 of CN902



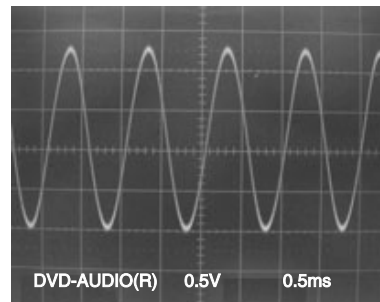
WF11 Pin 9 of CN902



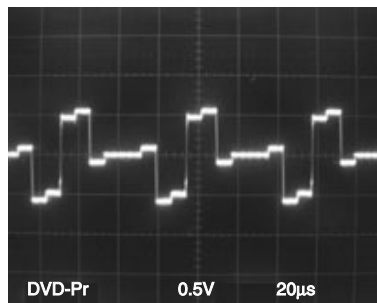
WF9 Pin 3 of CN902



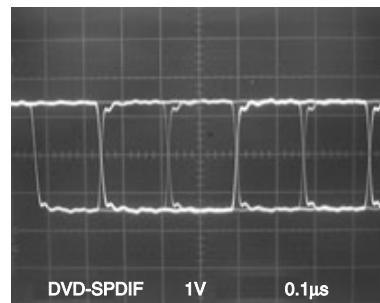
WF12 Pin 11 of CN902



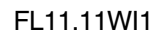
WF10 Pin 1 of CN902



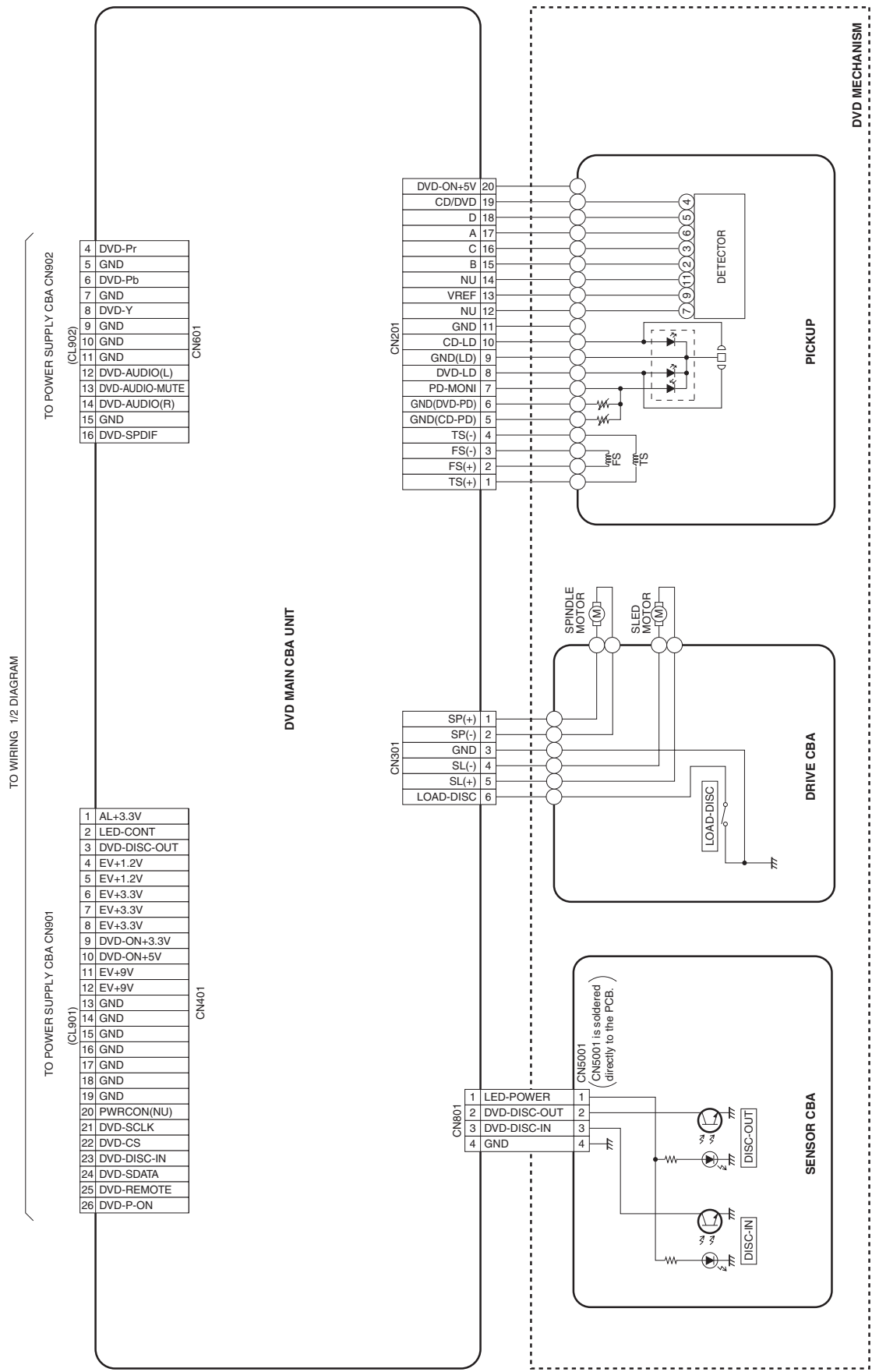
WF13 Pin 13 of CN902



Wiring 1/2 Diagram

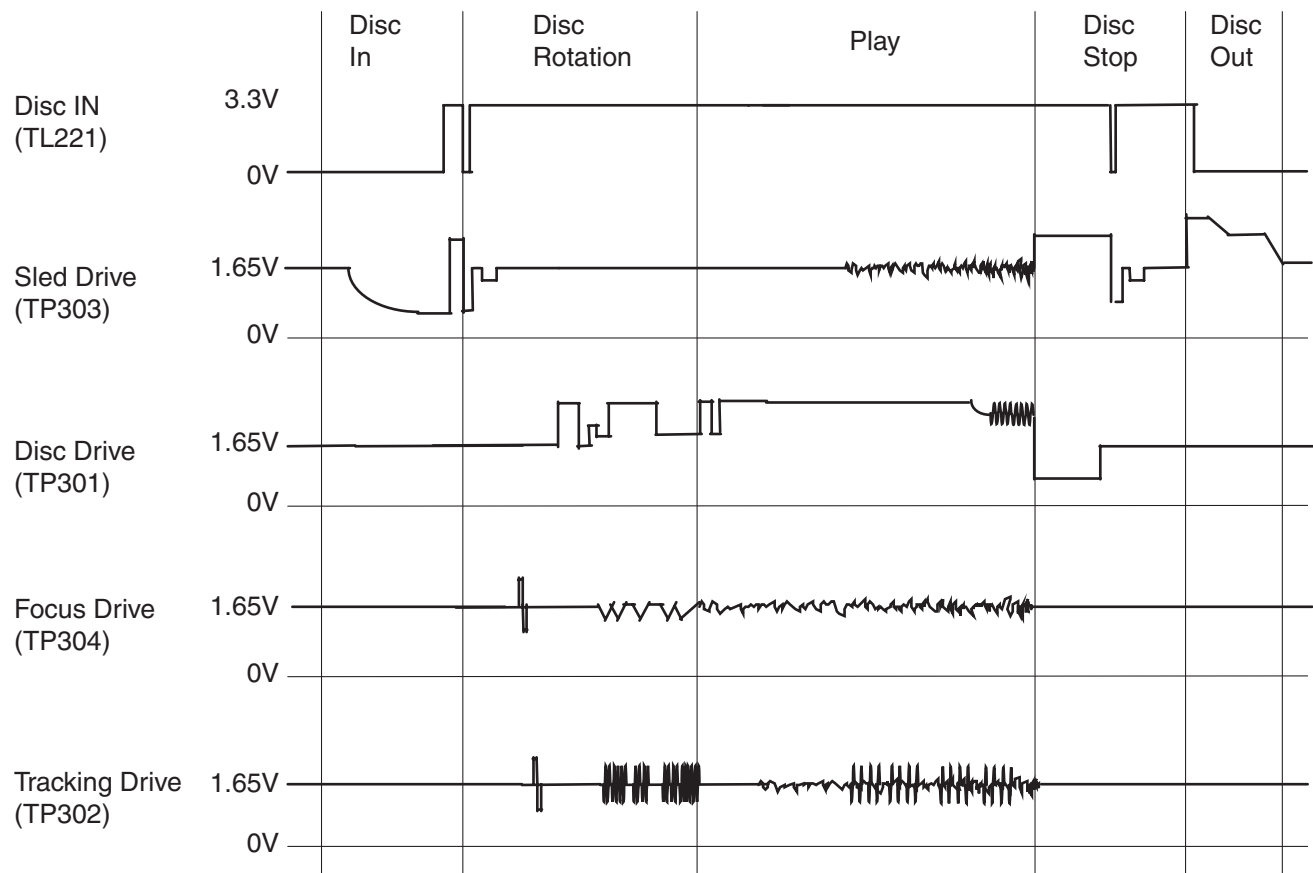


Wiring 2/2 Diagram

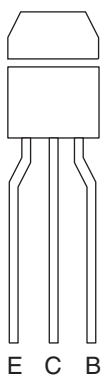


SYSTEM CONTROL TIMING CHARTS

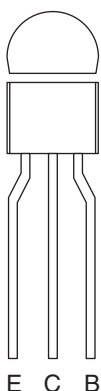
Disc In ~ Play/Play ~ Disc Out



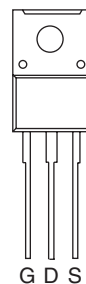
LEAD IDENTIFICATIONS



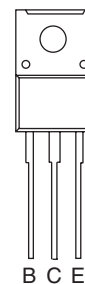
KTA1267-GR-AT/P



2SA950-O(Te2 F T)
2SC2120-(O,Y)(Te2 F T)
2SD400(E)
KTC3198-Y-AT/P
KTC3200-GR-AT/P

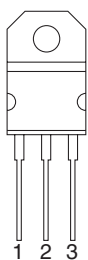


2SK2417(FT)
TK5A50D
TK8A50D



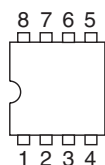
2SC4881F

LD1117V

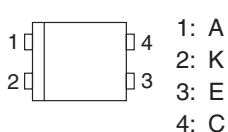


1: GND
2: Vout
3: Vin

TL3472CDR

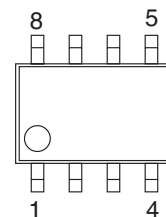


LTV-817MCF

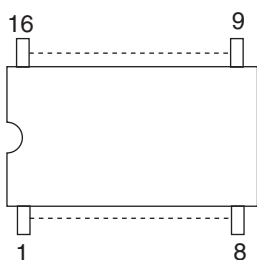


1: A
2: K
3: E
4: C

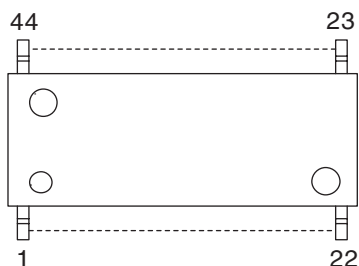
NJM4558M(Te1)



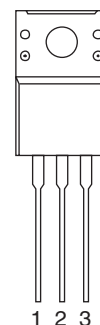
TC4052BF(ELNF)
TL494CDR



BD5426EFS-E2

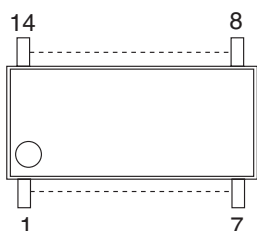


KIA1117API00



1: ADJ
2: OUTPUT
3: INPUT

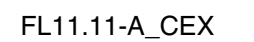
BA10324AF-E2



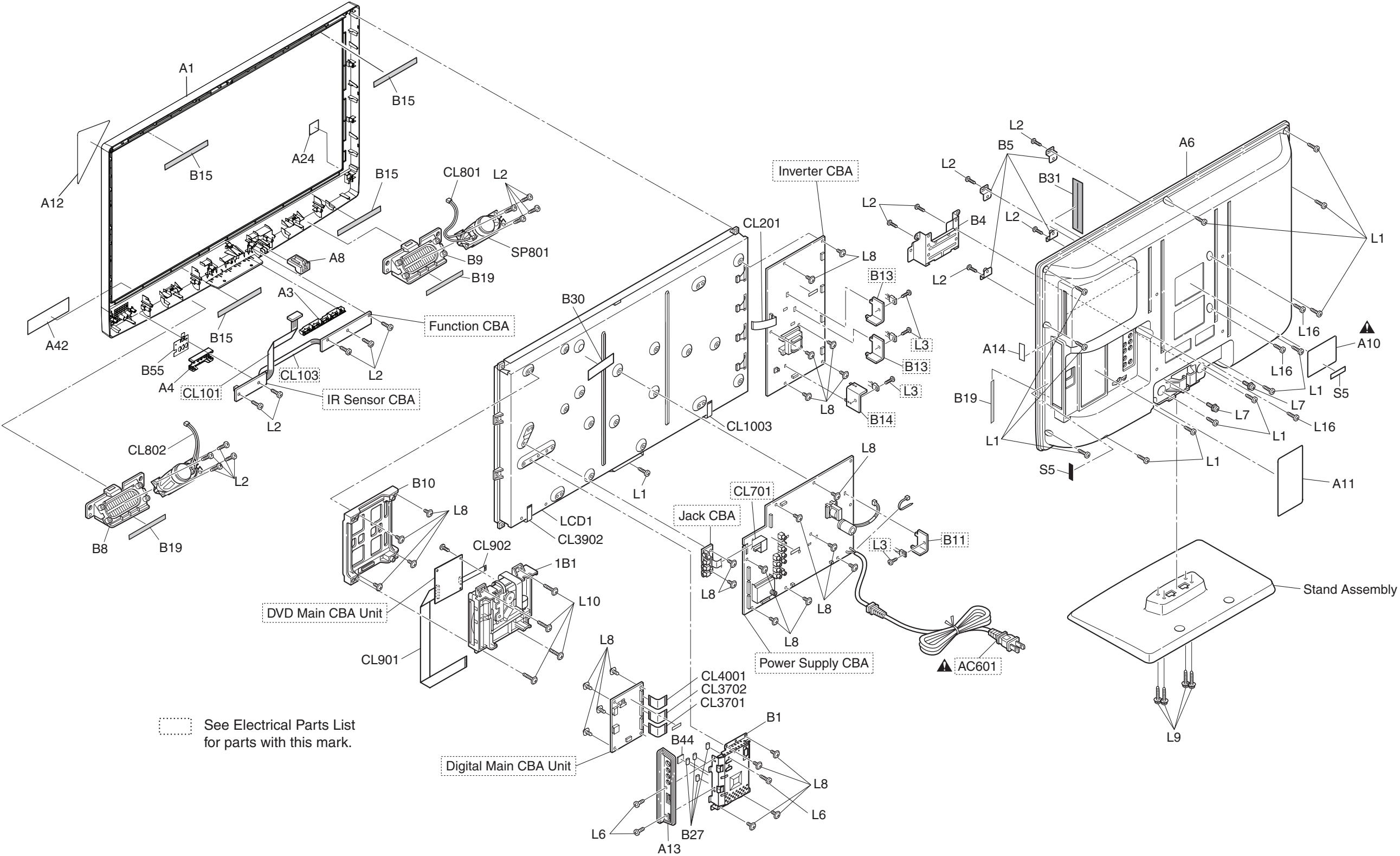
Note:

A: Anode
K: Cathode
E: Emitter
C: Collector
B: Base
R: Reference
S: Source
G: Gate
D: Drain

Cabinet [LD320SS2, 32MD301B/F7]

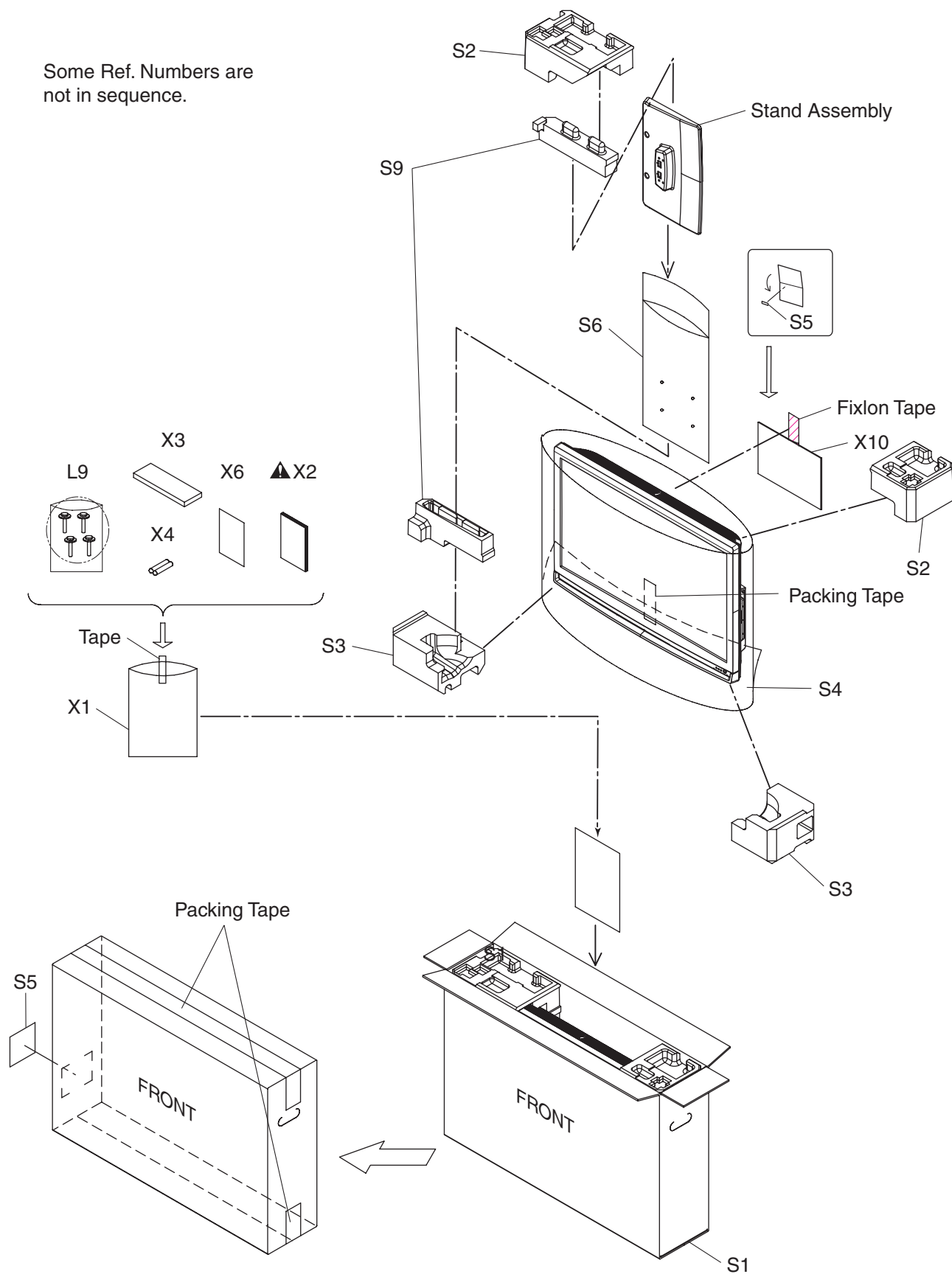


Cabinet [32MD311B/F7]



Packing

Some Ref. Numbers are not in sequence.



PARTS LIST [LD320SS2 (Serial No.: DS1)]

Mechanical Parts

PRODUCT SAFETY NOTE: Products marked with a  have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice in this service manual. Don't degrade the safety of the product through improper servicing.

NOTE: Parts that are not assigned part numbers (-----) are not available.

Ref. No.	Description	Part No.
	STAND ASSEMBLY A9DF1UH	1ESA25567
A1	FRONT CABINET A94F1UH	1EM023485A
A2	CONTROL PLATE A94F0UH	1EM325777
A5	DECORATION PLATE A1DF2UH	1EM126153
A6	REAR CABINET A9DF0UH	1EM025345
A8	AC CORD HOLDER A94F0UH	1EM325557
A10 	RATING LABEL A1DF2UH	-----
A11	JACK LABEL A9DF0UH	1EM431077
A12	POP LABEL A1DF2UH	-----
A13	JACK HOLDER A94F0UH	1EM123173
A14	CAUTION LABEL A1DF2UH	-----
A24	ENERGY STAR LABEL	-----
A42	ENERGY GUIDE LABEL	-----
1B1	DVD MECHA SLOT E7 N7XT3KVM	N7XT3KVM
B1	SHIELD BOX A17F4UH	1EM225624
B4	STAND HOLDER 32W A94F0UH	1EM222763
B5	WALL MOUNT BRACKET A84N0UH	1EM323797
B8	SPEAKER HOLDER (L) A94F0UH	1EM123233
B9	SPEAKER HOLDER (R) A94F0UH	1EM123234
B10	DVD HOLDER 32W A94F0UH	1EM023408
B15	CLOTH(10X180XT0.5) L0336JG	0EM408827
B19	CLOTH(15X110XT 0.5) L0110UA	0EM408385
B27	GASKET A84F0UH	1EM425861
B30	LASER CAUTION LABEL A94F0UH	-----
B31	FELT A94F0UH	1EM428797
B44	THERMAL SHEET TMS-14-20 12X12	XK10000X4011
CL201	WIRE ASSEMBLY 15PIN FFC 15PIN 140MM	WX1A94F0-104
CL801	WIRE ASSEMBLY 2PIN 2PIN 310MM RED BLACK	WX1A94F0-202
CL802	WIRE ASSEMBLY 2PIN 2PIN 100MM RED BLACK	WX1A94F0-203
CL901	WIRE ASSEMBLY 26PIN FFC 26PIN 260MM	WX1A94F0-112
CL902	WIRE ASSEMBLY 13PIN FFC 13PIN 155MM	WX1A94F0-103
CL1003	WIRE ASSEMBLY 11PIN FFC 11PIN 129MM	WX1A91F6-101
CL3701	WIRE ASSEMBLY 29PIN FFC 29PIN 50MM	WX1A94F0-101
CL3702	WIRE ASSEMBLY 29PIN FFC 29PIN 70MM	WX1A94F0-111
CL3902	WIRE ASSEMBLY 24PIN FFC 24PIN 117.5MM	WX1A91F6-102
CL4001	WIRE ASSEMBLY 29PIN FFC 29PIN 50MM	WX1A94F0-101
L1	SCREW P-TIGHT M4X14 BIND HEAD+BLK	GBHP4140
L2	SCREW P-TIGHT 3X10 BIND HEAD+	GBHP3100
L6	SCREW S-TIGHT M3X8 BIND HEAD+	GBHS3080
L7	DOUBLE SEMS SCREW M4X10 + BLK	FPH34100
L8	ASSEMBLED SCREW (D9 M3X6) A71F0UH	1EM424392B
L9	STAND SCREW KIT A94F0UH	1ESA19508
L10	SCREW P-TIGHT 3X12 WASHER HEAD+	GCJP3120

Ref. No.	Description	Part No.
L16	SCREW TAP TIGHT M3X10 BIND HEAD+BLK NI	GBHS3100
LCD1	LCD MODULE CMO 6BIT A GRADE	UJ32MXF
SP801	SPEAKER MAGNETIC S0412F06A	DSD0809XQ006
SP802	SPEAKER MAGNETIC S0412F06A	DSD0809XQ006
PACKING		
S1	CARTON A1DF2UH	1EM434688
S2	STYROFOAM TOP A94F0UH	1EM023410
S3	STYROFOAM BOTTOM A94F0UH	1EM023411
S4	SET BAG (900X850) A8AFFUH	1EM324904A
S5	SERIAL NO. LABEL A01PBUH	-----
S6	STAND BAG A94F0UH	1EM428757
S9	STAND HOLD PAD A94F1UH	1EM023746
ACCESSORIES		
X1	BAG POLYETHYLENE 235X365XT0.03	0EM408420A
X2 	OWNERS MANUAL A1DF2UH	1EMN27599
X3	REMOTE CONTROL NF033UD	NF033UD
X4	DRY BATTERY(SUNRISE) R6SSE/2S	XB0M451MS002
X6	QUICK START GUIDE A1DF2UH	1EMN27600
X10	REGISTRATION CARD (SYLVANIA) A017DUH	1EMN27080

Electrical Parts

PRODUCT SAFETY NOTE: Products marked with a  have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice in this service manual. Don't degrade the safety of the product through improper servicing.

NOTES:

- Parts that are not assigned part numbers (-----) are not available.
- Tolerance of Capacitors and Resistors are noted with the following symbols.

C.....±0.25% D.....±0.5% F.....±1%
 G.....±2% J.....±5% K.....±10%
 M.....±20% N.....±30% Z.....+80/-20%

DIGITAL MAIN CBA UNIT

Ref. No.	Description	Part No.
	DIGITAL MAIN CBA UNIT	A1DF2MMA-001

DVD MAIN CBA UNIT

Ref. No.	Description	Part No.
	DVD MAIN CBA UNIT	N7ETFKUP

MPW CBA

Ref. No.	Description	Part No.
	MPW CBA Consists of the following:	A1DF2MP1-001
	POWER SUPPLY CBA	-----
	JACK CBA	-----

POWER SUPPLY CBA

Ref. No.	Description	Part No.
	POWER SUPPLY CBA Consists of the following:	-----
CAPACITORS		
C201	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V	CHD1EZ30F104
C202	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V	CHD1EZ30F104
C203	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V	CHD1EZ30F104
C204	ELECTROLYTIC CAP. 2.2µF/50V M	CE1JMASDL2R2
C207	CHIP CERAMIC CAP.(1608) B K 0.1µF/16V	CHD1CK30B104
C210	ELECTROLYTIC CAP. 22µF/50V M	CE1JMASDL220
C216	CHIP CERAMIC CAP.(1608) CH J 1000pF/50V	CHD1JJ3CH102
C217	CHIP CERAMIC CAP.(1608) B K 0.1µF/16V	CHD1CK30B104
C218	CHIP CERAMIC CAP.(1608) B K 1µF/25V	CHD1EK30B105
C219	ELECTROLYTIC CAP. 47µF/25V M	CE1EMASDL470
C221	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C222	ELECTROLYTIC CAP. 470µF/25V M	CE1EMASDL471
C223	ELECTROLYTIC CAP. 22µF/50V M	CE1JMASDL220
C224	ELECTROLYTIC CAP. 10µF/50V M	CE1JMASDL100
C302	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V	CHD1EZ30F104
C303	ELECTROLYTIC CAP. 330µF/10V M	CE1AMASDL331
C305	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V	CHD1JZ30F104
C306	ELECTROLYTIC CAP. 1µF/50V M	CE1JMASDL1R0

Ref. No.	Description	Part No.
C309	CHIP CERAMIC CAP.(1608) CH J 1000pF/50V	CHD1JJ3CH102
C310	CHIP CERAMIC CAP.(1608) CH J 47pF/50V	CHD1JJ3CH470
C311	CHIP CERAMIC CAP.(1608) CH J 47pF/50V	CHD1JJ3CH470
C501	ELECTROLYTIC CAP. 100µF/25V M	CE1EMASDL101
C601 	CAP METALIZED FILM 0.47µF/300V K 3.5MM	CT2F474DC004
C602 	CAP METALIZED FILM 0.47µF/300V K 3.5MM	CT2F474DC004
C605	CAP ELECTROLYTIC 470µF/200V M	CA2D471DYG07
C609	POLYESTER FILM CAP. (PB FREE) 0.047µF/100V J	CA2A473DT018
C611	CERAMIC CAP. 470pF/2KV	CA3D471PAN04
C612	POLYESTER FILM CAP. (PB FREE) 0.068µF/100V J	CA2A683DT018
C613	POLYESTER FILM CAP. (PB FREE) 0.0015µF/100V J	CA2A152DT018
C631	ELECTROLYTIC CAP. 1000µF/25V M	CE1EMZNDL102
C632	ELECTROLYTIC CAP. 220µF/25V M	CE1EMASDL221
C633	CAP ALUMINUM ELECTROLYTIC 2200µF/6.3V M	CE0KMZNDL222
C634	ELECTROLYTIC CAP. 1000µF/10V M	CE1AMASDL102
C637	CERAMIC CAP. 2200pF/1KV	CCD3AKA0R221
C638	ELECTROLYTIC CAP. 220µF/50V M	CE1JMASDL221
C639	ELECTROLYTIC CAP. 1000µF/35V M	CE1GMZADL102
C642	ELECTROLYTIC CAP. 0.47µF/50V M	CE1JMASDLR47
C644	ELECTROLYTIC CAP. 3300µF/16V M	CE1CMZNDL332
C645	CAP ALUMINUM ELECTROLYTIC 2200µF/6.3V M	CE0KMZNDL222
C646	POLYESTER FILM CAP. (PB FREE) 0.0022µF/100V J	CA2A222DT018
C647	ELECTROLYTIC CAP. 1µF/50V M	CE1JMASDL1R0
C648	ELECTROLYTIC CAP. 100µF/10V M	CE1AMASDL101
C652	ELECTROLYTIC CAP. 1000µF/6.3V M	CE0KMASDL102
C653	ELECTROLYTIC CAP. 220µF/10V M	CE1AMASDL221
C654	ELECTROLYTIC CAP. 220µF/10V M	CE1AMASDL221
C656	ELECTROLYTIC CAP. 100µF/16V M	CE1CMASDL101
C657	ELECTROLYTIC CAP. 22µF/50V M	CE1JMASDL220
C676	ELECTROLYTIC CAP. 2.2µF/50V M	CE1JMASDL2R2
C681	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V	CHD1EZ30F104
C682	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V	CHD1EZ30F104
C683	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V	CHD1EZ30F104
C684	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V	CHD1EZ30F104
C691 	SAFTY CAP. 1000pF/250V KX	CA2E102MR101
C693 	SAFTY CAP. 1000pF/250V KX	CA2E102MR101
C723	CHIP CERAMIC CAP.(1608) B K 2.2µF/10V	CHD1AK30B225
C724	CHIP CERAMIC CAP.(1608) B K 2.2µF/10V	CHD1AK30B225
C731	CHIP CERAMIC CAP. CH J 39pF/50V	CHD1JJ3CH390
C732	CHIP CERAMIC CAP. CH J 39pF/50V	CHD1JJ3CH390
C733	CHIP CERAMIC CAP. CH J 39pF/50V	CHD1JJ3CH390
C743	CHIP CERAMIC CAP.(1608) B K 2.2µF/10V	CHD1AK30B225
C744	CHIP CERAMIC CAP.(1608) B K 2.2µF/10V	CHD1AK30B225
C771	ELECTROLYTIC CAP. 100µF/16V M	CE1CMASDL101
C772	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V	CHD1EZ30F104
C775	CHIP CERAMIC CAP.(1608) CH J 100pF/50V	CHD1JJ3CH101
C776	CHIP CERAMIC CAP.(1608) CH J 100pF/50V	CHD1JJ3CH101
C801	CHIP CERAMIC CAP. F Z 1µF/10V	CHD1AZ30F105
C802	CHIP CERAMIC CAP.(1608) B K 0.1µF/25V	CHD1EK30B104
C803	CHIP CERAMIC CAP.(1608) B K 1µF/25V	CHD1EK30B105
C804	CHIP CERAMIC CAP.(1608) B K 0.1µF/25V	CHD1EK30B104
C805	CHIP CERAMIC CAP.(1608) CH J 1000pF/50V	CHD1JJ3CH102
C806	CHIP CERAMIC CAP.(1608) B K 1µF/25V	CHD1EK30B105
C807	CHIP CERAMIC CAP.(1608) B K 0.1µF/25V	CHD1EK30B104
C808	CHIP CERAMIC CAP.(1608) CH J 1000pF/50V	CHD1JJ3CH102
C809	CHIP CERAMIC CAP.(1608) B K 0.1µF/25V	CHD1EK30B104

Ref. No.	Description	Part No.
C810	CHIP CERAMIC CAP(1608) B K 0.1μF/25V	CHD1EK30B104
C811	CHIP CERAMIC CAP(1608) B K 0.47μF/16V	CHD1CK30B474
C815	CHIP CERAMIC CAP. F Z 1μF/10V	CHD1AZ30F105
C816	ELECTROLYTIC CAP. 10μF/50V M	CE1JMASDL100
C817	CHIP CERAMIC CAP(1608) B K 1μF/25V	CHD1EK30B105
C818	CHIP CERAMIC CAP(1608) B K 0.1μF/25V	CHD1EK30B104
C819	ELECTROLYTIC CAP. 10μF/50V M	CE1JMASDL100
C820	CHIP CERAMIC CAP(1608) B K 1μF/25V	CHD1EK30B105
C821	CHIP CERAMIC CAP(1608) B K 0.1μF/25V	CHD1EK30B104
C822	CHIP CERAMIC CAP(1608) CH J 1000pF/50V	CHD1JJ3CH102
C823	ELECTROLYTIC CAP. 1000μF/25V M	CE1EMZNDL102
C824	CHIP CERAMIC CAP(1608) B K 1μF/25V	CHD1EK30B105
C825	CHIP CERAMIC CAP(1608) B K 0.1μF/25V	CHD1EK30B104
C826	CHIP CERAMIC CAP(1608) CH J 1000pF/50V	CHD1JJ3CH102
C827	ELECTROLYTIC CAP. 10μF/50V M	CE1JMASDL100
C828	CHIP CERAMIC CAP(1608) B K 0.1μF/25V	CHD1EK30B104
C829	CHIP CERAMIC CAP(1608) B K 0.1μF/25V	CHD1EK30B104
C830	CHIP CERAMIC CAP(1608) B K 0.47μF/16V	CHD1CK30B474
C832	ELECTROLYTIC CAP. 3.3μF/50V M	CE1JMASDL3R3
C833	CHIP CERAMIC CAP(1608) B K 0.1μF/25V	CHD1EK30B104
C834	CHIP CERAMIC CAP. F Z 1μF/10V	CHD1AZ30F105
C835	CHIP CERAMIC CAP(1608) B K 2700pF/50V	CHD1JK30B272
C836	CHIP CERAMIC CAP. F Z 1μF/10V	CHD1AZ30F105
C837	CHIP CERAMIC CAP(1608) B K 2700pF/50V	CHD1JK30B272
C838	CHIP CERAMIC CAP(1608) CH J 470pF/50V	CHD1JJ3CH471
C839	CHIP CERAMIC CAP(1608) CH J 470pF/50V	CHD1JJ3CH471
C841	CHIP CERAMIC CAP. F Z 1μF/10V	CHD1AZ30F105
C842	CHIP CERAMIC CAP. F Z 1μF/10V	CHD1AZ30F105
C843	CHIP CERAMIC CAP(1608) B K 0.01μF/50V	CHD1JK30B103
C844	ELECTROLYTIC CAP. 10μF/50V M	CE1JMASDL100
C845	CHIP CERAMIC CAP(1608) CH J 470pF/50V	CHD1JJ3CH471
C846	CHIP CERAMIC CAP(1608) CH J 470pF/50V	CHD1JJ3CH471
C847	CHIP CERAMIC CAP(1608) B K 0.1μF/25V	CHD1EK30B104
C871	CHIP CERAMIC CAP(1608) B K 3300pF/50V	CHD1JK30B332
C872	CHIP CERAMIC CAP(1608) B K 3300pF/50V	CHD1JK30B332
C873	CHIP CERAMIC CAP(1608) B K 2.2μF/10V	CHD1AK30B225
C874	CHIP CERAMIC CAP(1608) B K 2.2μF/10V	CHD1AK30B225
C875	CHIP CERAMIC CAP(1608) CH J 100pF/50V	CHD1JJ3CH101
C876	CHIP CERAMIC CAP(1608) CH J 100pF/50V	CHD1JJ3CH101
C877	CHIP CERAMIC CAP(1608) B K 6800pF/50V	CHD1JK30B682
C878	CHIP CERAMIC CAP(1608) B K 6800pF/50V	CHD1JK30B682
C879	CHIP CERAMIC CAP(1608) F Z 0.1μF/25V	CHD1EZ30F104
C880	ELECTROLYTIC CAP. 100μF/16V M	CE1CMASDL101
C882	CHIP CERAMIC CAP(1608) B K 2.2μF/10V	CHD1AK30B225
C883	CHIP CERAMIC CAP(1608) B K 2.2μF/10V	CHD1AK30B225
C884	CHIP CERAMIC CAP(1608) B K 2.2μF/10V	CHD1AK30B225
C885	CHIP CERAMIC CAP(1608) B K 2.2μF/10V	CHD1AK30B225
C906	CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C907	CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C916	ELECTROLYTIC CAP. 1000μF/6.3V M	CE0KMASDL102
C917	ELECTROLYTIC CAP. 220μF/6.3V M	CE0KMASDL221
C918	ELECTROLYTIC CAP. 100μF/10V M	CE1AMASDL101
C919	ELECTROLYTIC CAP. 47μF/25V M	CE1EMASDL470
C951	ELECTROLYTIC CAP. 100μF/16V M	CE1CMASDL101
C952	CHIP CERAMIC CAP(1608) F Z 0.1μF/25V	CHD1EZ30F104
C953	CHIP CERAMIC CAP. F Z 1μF/10V	CHD1AZ30F105
C954	CHIP CERAMIC CAP. F Z 1μF/10V	CHD1AZ30F105
C957	CHIP CERAMIC CAP(1608) B K 2.2μF/10V	CHD1AK30B225
C958	CHIP CERAMIC CAP(1608) B K 2.2μF/10V	CHD1AK30B225
C959	CHIP CERAMIC CAP. CH J 220pF/50V	CHD1JJ3CH221
C960	CHIP CERAMIC CAP. CH J 220pF/50V	CHD1JJ3CH221
CONNECTORS		

Ref. No.	Description	Part No.
CN101	PH CONNECTOR TOP 8P B8B-PH-K-S (LF)(SN)	J3PHC08JG029
CN201	FFC CONNECTOR 15P IMSA-9615S-15A-PP-A	JC96J15ER007
CN301	FFC CONNECTOR IMSA-9615S-29A-PP-A	JC96J29ER007
CN302	FFC CONNECTOR IMSA-9615S-29A-PP-A	JC96J29ER007
CN303	FFC CONNECTOR IMSA-9615S-29A-PP-A	JC96J29ER007
CN602	WIRE ASSEMBLY 2PIN 2PIN 145MM RED BLACK	WX1A94F0-201
CN801	PH CONNECTOR TOP 2P B2B-PH-K-S (LF)(SN)	J3PHC02JG029
CN802	PH CONNECTOR TOP 2P B2B-PH-K-S (LF)(SN)	J3PHC02JG029
CN901	FFC CONNECTOR IMSA-9615S-26A-PP-A	JC96J26ER007
CN902	FFC CONNECTOR IMSA-9615S-13A-PP-A	JC96J13ER007
DIODES		
D202	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D203	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D204	IC SHUNT REGULATOR KIA431-AT/P	NSZBA0TJY036
D205	DIODE ZENER 24BSC-T26	NDTC024BST26
D206	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D207	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D208	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D209	DIODE ZENER 39BSB-T26	NDTB039BST26
D210	DIODE ZENER 6V2BSB-T26	NDTB6R2BST26
D211	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D404	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D405	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D406	DIODE ZENER 15BSB-T26	NDTB015BST26
D407	DIODE ZENER 10BSB-T26	NDTB010BST26
D409	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D410	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D411	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D412	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D413	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D414	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D415	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D416	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D417	DIODE ZENER 3V9BSB-T26	NDTB3R9BST26
D418	DIODE ZENER 3V9BSB-T26	NDTB3R9BST26
D419	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D420	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D421	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D601▲	DIODE GENERAL PURPOSE 1N5406-BU	NDLZ1N5406BU
D602▲	DIODE GENERAL PURPOSE 1N5406-BU	NDLZ1N5406BU
D603▲	DIODE GENERAL PURPOSE 1N5406-BU	NDLZ1N5406BU
D604▲	DIODE GENERAL PURPOSE 1N5406-BU	NDLZ1N5406BU
D606▲	DIODE ZENER 27BSB-T26	NDTB027BST26
D607	DIODE ZENER 4V3BSB-T26	NDTB4R3BST26
D609▲	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D611	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D612▲	DIODE ZENER 39BSB-T26	NDTB039BST26
D620	DIODE ZENER 1ZB220-YBB	NDWZ01ZB220Y
D631	DIODE FR154	NDLZ000FR154
D632	DIODE FR104-B	NDLZ000FR104
D633	DIODE FAST RECOVERY FR151-B/P	NDWZ0FR151BP
D634	SCHOTTKY BARRIER DIODE SB240-B/P	NDWZ000SB240
D635	DIODE ZENER 24BSB-T26	NDTB024BST26
D637	SCHOTTKY BARRIER DIODE SB160	NDWZ000SB160
D638	DIODE FR154	NDLZ000FR154
D639	DIODE ZENER 1ZB43BB	NDWZ0001ZB43
D641	SCHOTTKY BARRIER DIODE SB390	NDWZ000SB390
D642	SCHOTTKY BARRIER DIODE SB390	NDWZ000SB390
D643	DIODE FR104-B	NDLZ000FR104
D644	DIODE ZENER 10BSB-T26	NDTB010BST26

Ref. No.	Description	Part No.
D645	SHUNT REGULATOR KIA431B-AT/P	NSZBA0TJY038
D646	DIODE SCHOTTKY SB360BH	NDWZ000SB360
D647	SCHOTTKY BARRIER DIODE SB240-B/P	NDWZ000SB240
D648	SCHOTTKY BARRIER DIODE SB140	NDWZ000SB140
D649	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D650	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D652	DIODE ZENER 5V6BSB-T26	NDTB5R6BST26
D655	RECTIFIER DIODE 1N4005	NDQZ001N4005
D657	DIODE ZENER 33BSB-T26	NDTB033BST26
D658	DIODE ZENER 3V3BSB-T26	NDTB3R3BST26
D659	DIODE ZENER 6V8BSA-T26	NDTA6R8BST26
D660	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D661	DIODE FR154	NDLZ000FR154
D662	DIODE FR154	NDLZ000FR154
D664	DIODE ZENER 4V7BSB-T26	NDTB4R7BST26
D665	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
D666	IC SHUNT REGULATOR KIA431-AT/P	NSZBA0TJY036
D670	DIODE ZENER 10BSB-T26	NDTB010BST26
D671	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
D675	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
D676	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
D801	DIODE ZENER 20BSB-T26	NDTB020BST26
D802	DIODE ZENER 20BSB-T26	NDTB020BST26
D803	DIODE ZENER 20BSB-T26	NDTB020BST26
D804	DIODE ZENER 20BSB-T26	NDTB020BST26
D806	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D901	RECTIFIER DIODE 1N4005	NDQZ001N4005
D902	RECTIFIER DIODE 1N4005	NDQZ001N4005
D903	RECTIFIER DIODE 1N4005	NDQZ001N4005
D904	DIODE FR104-B	NDLZ000FR104
D905	IC SHUNT REGULATOR KIA431-AT/P	NSZBA0TJY036
D906	DIODE ZENER 3V9BSB-T26	NDTB3R9BST26
D907	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D909	RECTIFIER DIODE 1N4005	NDQZ001N4005
ICS		
IC201	IC TL3472CDR	NSZBA0TTY115
IC601▲	PHOTO COUPLER LTV817MCF	NPECLTV817MF
IC631	IC LD1117V	NSZBA0SSS046
IC771	IC SWITCHING TC4052BF(ELNF)	QSZBA0TTS162
IC801	IC D-AMP BD5426EFS-E2	QSZBA0TRM137
IC871	IC OP AMP NJM4558M(Te1)-#ZZZB	QSZBA0TJR089
IC901	IC REGULATOR KIA1117API00/TO-220	NSCA0S0JY009
IC951	IC OP AMP NJM4558M(Te1)-#ZZZB	QSZBA0TJR089
COILS		
L302	CHIP INDUCTOR LK1608R22K-T	LLACKB3TUR22
L303	CHIP INDUCTOR LK1608R22K-T	LLACKB3TUR22
L601▲	COIL LINE FILTER ST0807ET28-009 10MH	LLEG0Z0Y2029
L602▲	COIL LINE FILTER ST0807ET28-009 10MH	LLEG0Z0Y2029
L801	RADIAL LEAD INDUCTORS 33μF	LLARKGQTU330
L802	RADIAL LEAD INDUCTORS 33μF	LLARKGQTU330
L803	RADIAL LEAD INDUCTORS 33μF	LLARKGQTU330
L804	RADIAL LEAD INDUCTORS 33μF	LLARKGQTU330
L871	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
L901	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
L951	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
TRANSISTORS		
Q171	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q172	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q201	TRANSISTOR KTA1267-GR-AT/P	NQS1KTA1267P
Q202	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q203	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q204	TRANSISTOR KTA1267-GR-AT/P	NQS1KTA1267P

Ref. No.	Description	Part No.
Q205	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q207	TRANSISTOR KTA1267-GR-AT/P	NQS1KTA1267P
Q208	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q209	TRANSISTOR 2SD400(E)	QQUE002SD400
Q210	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q211	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q212	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q401	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q402	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q501	TRANSISTOR 2SC2120-Y(Te2 F T)	QQSY2SC2120F
Q601▲	FET MOS TK5A50D(FUNAI)	QEWZTK5A50DQ
Q602▲	TRANSISTOR 2SC2120-O(Te2 F T)	QQS02SC2120F
Q631	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q634	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q635	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q636	TRANSISTOR 2SA950-O (Te2 F T)	QQS002SA950F
Q637	NPN TRANSISTOR POWER 2SC4881F HFE MAX320	QQWZ2SC4881F
Q638	TRANSISTOR KTA1267-GR-AT/P	NQS1KTA1267P
Q639	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q640	TRANSISTOR 2SC2120-Y(Te2 F T)	QQSY2SC2120F
Q641	TRANSISTOR 2SC2120-Y(Te2 F T)	QQSY2SC2120F
Q642	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q643	TRANSISTOR 2SC2120-Y(Te2 F T)	QQSY2SC2120F
Q771	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q772	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q801	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q802	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q841	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q871	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q872	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q873	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q874	TRANSISTOR KTA1267-GR-AT/P	NQS1KTA1267P
Q901	TRANSISTOR 2SA950-O (Te2 F T)	QQS002SA950F
Q902	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q903	TRANSISTOR 2SC2120-Y(Te2 F T)	QQSY2SC2120F
Q904	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
RESISTORS		
R171	RES CHIP 1608 1/10W J 22k Ω	RRJ223RYL002
R172	RES CHIP 1608 1/10W J 22k Ω	RRJ223RYL002
R175	RES CARBON FILM T 1/4W J 22k Ω	RCX4223T1001
R201	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R202	RES CHIP 1608 1/10W J 1k Ω	RRJ102RYL002
R204	RES CARBON FILM T 1/4W J 560 Ω	RCX4561T1001
R206	RES CHIP 1608 1/10W J 1k Ω	RRJ102RYL002
R207	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R208	RES CHIP 1608 1/10W J 1 Ω	RRJ1R0RYL002
R210	RES CARBON FILM T 1/4W J 10 Ω	RCX4100T1001
R212	RES CARBON FILM T 1/4W J 10 Ω	RCX4100T1001
R213	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R216	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002
R217	RES CHIP 1608 1/10W J 1.5k Ω	RRJ152RYL002
R218	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002
R219	RES CHIP 1608 1/10W J 15k Ω	RRJ153RYL002
R220	RES CHIP 1608 1/10W J 1k Ω	RRJ102RYL002
R223	RES CARBON FILM T 1/4W J 3.3k Ω	RCX4332T1001
R224	RES CARBON FILM T 1/4W J 27k Ω	RCX4273T1001
R225	RES CHIP 1608 1/10W J 22k Ω	RRJ223RYL002
R226	RES CHIP 1608 1/10W J 22k Ω	RRJ223RYL002
R227	METAL OXIDE FILM RES. 1W J 2.7 Ω	RN012R7ZU001
R228	RES CARBON FILM T 1/4W J 2.7k Ω	RCX4272T1001
R229	RES CARBON FILM T 1/4W J 2.7k Ω	RCX4272T1001
R231	RES CHIP 1608 1/10W J 1.5k Ω	RRJ152RYL002

Ref. No.	Description	Part No.
R232	RES CHIP 1608 1/10W F 11.0k Ω	RTW1102HH008
R233	RES CHIP 1608 1/10W F 750 Ω	RTW7500HH008
R234	RES CHIP 1608 1/10W F 2.20k Ω	RTW2201HH008
R235	RES CARBON FILM T 1/4W J 330 Ω	RCX4331T1001
R236	RES CARBON FILM T 1/4W J 10 Ω	RCX4100T1001
R237	RES CARBON FILM T 1/4W J 8.2k Ω	RCX4822T1001
R238	RES CARBON FILM T 1/4W J 1.5k Ω	RCX4152T1001
R240	RES CARBON FILM T 1/4W J 47k Ω	RCX4473T1001
R241	RES CHIP 1608 1/10W J 22k Ω	RRJ223RYL002
R242	RES CARBON FILM T 1/4W J 12k Ω	RCX4123T1001
R243	RES CARBON FILM T 1/4W J 220 Ω	RCX4221T1001
R245	RES CARBON FILM T 1/4W J 8.2k Ω	RCX4822T1001
R247	METAL OXIDE FILM RES. 1W J 2.7 Ω	RN012R7ZU001
R248	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002
R302	RES CHIP 1608 1/10W 0 Ω	RRZ000RYL002
R303	RES CHIP 1608 1/10W 0 Ω	RRZ000RYL002
R306	RES CHIP 1608 1/10W 0 Ω	RRZ000RYL002
R307	RES CHIP 1608 1/10W 0 Ω	RRZ000RYL002
R308	RES CHIP 1608 1/10W J 82 Ω	RRJ820RYL002
R309	RES CHIP 1608 1/10W J 82 Ω	RRJ820RYL002
R310	RES CHIP 1608 1/10W 0 Ω	RRZ000RYL002
R401	RES CHIP 1608 1/10W J 22k Ω	RRJ223RYL002
R402	RES CARBON FILM T 1/4W J 22k Ω	RCX4223T1001
R403	RES CHIP 1608 1/10W J 47k Ω	RRJ473RYL002
R404	RES CHIP 1608 1/10W J 22k Ω	RRJ223RYL002
R405	RES CARBON FILM T 1/4W J 47k Ω	RCX4473T1001
R407	RES CARBON FILM T 1/4W J 22k Ω	RCX4223T1001
R408	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002
R410	RES CHIP 1608 1/10W F 43.0k Ω	RTW4302HH008
R411	RES CHIP 1608 1/10W F 56.0k Ω	RTW5602HH008
R412	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002
R501	RES CARBON FILM T 1/4W J 10 Ω	RCX4100T1001
R601▲	RES. CARBON FILM J 1/2W J 560k Ω	RCX2564T1003
R602▲	CEMENT RESISTOR 5W J 2.2 Ω H 10MM	RW052R2PAK10
R604	RES CARBON FILM T 1/4W J 390k Ω	RCX4394T1001
R605	RES CARBON FILM T 1/4W J 390k Ω	RCX4394T1001
R606	RES CARBON FILM T 1/4W J 390k Ω	RCX4394T1001
R610	RES CARBON FILM T 1/4W J 180 Ω	RCX4181T1001
R611	RES CARBON FILM T 1/4W J 180 Ω	RCX4181T1001
R613	RES CARBON FILM T 1/4W J 1.2k Ω	RCX4122T1001
R614▲	METAL OXIDE FILM RES. 2W J 0.39 Ω	RN02R39ZU001
R615	RES CARBON FILM T 1/4W J 3.9k Ω	RCX4392T1001
R616	RES CARBON FILM T 1/4W J 180 Ω	RCX4181T1001
R617▲	CEMENT RESISTOR 5W J 2.2 Ω H 10MM	RW052R2PAK10
R618	RES CARBON FILM T 1/4W J 390k Ω	RCX4394T1001
R636	RES. CARBON FILM J 1/2W J 2.7 Ω	RCX22R7T1003
R637	RES CARBON FILM T 1/4W J 1.2k Ω	RCX4122T1001
R638	RES CARBON FILM T 1/4W J 1.5k Ω	RCX4152T1001
R639	RES CARBON FILM T 1/4W J 1.5k Ω	RCX4152T1001
R641	RES CHIP 1608 1/10W D 1.10k Ω	RTW1101HH007
R642	RES CHIP 1608 1/10W D 10.0k Ω	RTW1002HH007
R643	RES CHIP 1608 1/10W D 10.0k Ω	RTW1002HH007
R644	RES CHIP 1608 1/10W F 820 Ω	RTW8200HH008
R645	RES CARBON FILM T 1/4W J 270 Ω	RCX4271T1001
R646	RES CARBON FILM T 1/4W J 180 Ω	RCX4181T1001
R648	RES CHIP 1608 1/10W F 1.00k Ω	RTW1001HH008
R650	RES CARBON FILM T 1/4W J 6.8k Ω	RCX4682T1001
R651	RES CHIP 1608 1/10W J 1 Ω	RRJ1R0RYL002
R652	RES CHIP 1608 1/10W F 24.0k Ω	RTW2402HH008
R653	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
R654	RES CHIP 1608 1/10W J 1k Ω	RRJ102RYL002
R658	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002
R659	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002

Ref. No.	Description	Part No.
R660	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
R661	RES. CARBON FILM J 1/2W J 390 Ω	RCX2391T1003
R662	RES CARBON FILM T 1/4W J 15 Ω	RCX4150T1001
R663	RES CARBON FILM T 1/4W J 1.8k Ω	RCX4182T1001
R664	RES CARBON FILM T 1/4W J 1.8k Ω	RCX4182T1001
R665	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
R666	RES CARBON FILM T 1/4W J 1.0 Ω	RCX41R0T1001
R667	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
R668	RES CHIP 1608 1/10W F 620 Ω	RTW6200HH008
R669	RES CHIP 1608 1/10W F 1.00k Ω	RTW1001HH008
R670	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
R671	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
R672	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
R673	RES CARBON FILM T 1/4W J 22k Ω	RCX4223T1001
R674	RES CARBON FILM T 1/4W J 1.0k Ω	RCX4102T1001
R675	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002
R676	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R677	RES CARBON FILM T 1/4W J 270 Ω	RCX4271T1001
R678	RES CARBON FILM T 1/4W J 10 Ω	RCX4100T1001
R679	RES CHIP 1608 1/10W F 3.60k Ω	RTW3601HH008
R680	RES CHIP 1608 1/10W F 10.0k Ω	RTW1002HH008
R682	RES CARBON FILM T 1/4W J 2.7 Ω	RCX42R7T1001
R683	RES CARBON FILM T 1/4W J 2.7 Ω	RCX42R7T1001
R685	RES CARBON FILM T 1/4W J 22 Ω	RCX4220T1001
R686	RES CARBON FILM T 1/4W J 1.0k Ω	RCX4102T1001
R687	RES CARBON FILM T 1/4W J 10 Ω	RCX4100T1001
R688	RES CARBON FILM T 1/4W J 10 Ω	RCX4100T1001
R689	RES CARBON FILM T 1/4W J 1.2k Ω	RCX4122T1001
R691	RES CARBON FILM T 1/4W J 2.7 Ω	RCX42R7T1001
R692	RES CARBON FILM T 1/4W J 2.7 Ω	RCX42R7T1001
R693	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
R694	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
R695	RES CARBON FILM T 1/4W J 33 Ω	RCX4330T1001
R696	METAL OXIDE FILM RES. 1W J 3.3 Ω	RN013R3ZU001
R697	METAL OXIDE FILM RES. 1W J 3.3 Ω	RN013R3ZU001
R699	RES CARBON FILM T 1/4W J 56 Ω	RCX4560T1001
R723	RES CHIP 1608 1/10W J 15k Ω	RRJ153RYL002
R724	RES CHIP 1608 1/10W J 15k Ω	RRJ153RYL002
R725	RES CHIP 1608 1/10W J 39k Ω	RRJ393RYL002
R726	RES CHIP 1608 1/10W J 39k Ω	RRJ393RYL002
R731	RES CHIP 1608 1/10W J 75 Ω	RRJ750RYL002
R732	RES CHIP 1608 1/10W J 75 Ω	RRJ750RYL002
R733	RES CHIP 1608 1/10W J 75 Ω	RRJ750RYL002
R734	RES CHIP 1608 1/10W J 10 Ω	RRJ100RYL002
R735	RES CHIP 1608 1/10W J 10 Ω	RRJ100RYL002
R736	RES CHIP 1608 1/10W J 10 Ω	RRJ100RYL002
R743	RES CHIP 1608 1/10W J 15k Ω	RRJ153RYL002
R744	RES CHIP 1608 1/10W J 15k Ω	RRJ153RYL002
R745	RES CHIP 1608 1/10W J 39k Ω	RRJ393RYL002
R746	RES CHIP 1608 1/10W J 39k Ω	RRJ393RYL002
R763	RES CARBON FILM T 1/4W J 10k Ω	RCX4103T1001
R771	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
R772	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002
R773	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002
R774	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002
R775	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002
R776	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R777	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R778	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R779	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R802	RES CHIP 1608 1/10W F 27.0k Ω	RTW2702HH008
R803	RES CHIP 1608 1/10W F 11.0k Ω	RTW1102HH008
R804	RES CHIP 1608 1/10W F 11.0k Ω	RTW1102HH008

Ref. No.	Description	Part No.
R806	RES CHIP 1608 1/10W J 4.7k Ω	RRJ472RYL002
R810	RES CHIP 1608 1/10W 0 Ω	RRZ000RYL002
R813	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002
R814	RES CHIP 1608 1/10W J 3.3k Ω	RRJ332RYL002
R815	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002
R816	RES CHIP 1608 1/10W J 3.3k Ω	RRJ332RYL002
R817	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R818	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002
R819	RES CARBON FILM T 1/4W J 22k Ω	RCX4223T1001
R820	RES CHIP 1608 1/10W J 22k Ω	RRJ223RYL002
R843	RES CHIP 1608 1/10W J 110 Ω	RRJ111RYL002
R844	RES CHIP 1608 1/10W J 220 Ω	RRJ221RYL002
R847	RES CHIP 1608 1/10W J 4.7k Ω	RRJ472RYL002
R848	RES CHIP 1608 1/10W J 4.7k Ω	RRJ472RYL002
R871	RES CHIP 1608 1/10W J 560 Ω	RRJ561RYL002
R872	RES CHIP 1608 1/10W J 560 Ω	RRJ561RYL002
R873	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R874	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R877	RES CHIP 1608 1/10W J 1k Ω	RRJ102RYL002
R878	RES CARBON FILM T 1/4W J 1.0k Ω	RCX4102T1001
R879	RES CHIP 1608 1/10W J 16k Ω	RRJ163RYL002
R880	RES CHIP 1608 1/10W J 16k Ω	RRJ163RYL002
R881	RES CHIP 1608 1/10W J 100 Ω	RRJ101RYL002
R882	RES CHIP 1608 1/10W J 100 Ω	RRJ101RYL002
R883	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R884	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R885	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R886	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R887	RES CHIP 1608 1/10W J 22k Ω	RRJ223RYL002
R888	RES CHIP 1608 1/10W J 1k Ω	RRJ102RYL002
R891	RES CHIP 1608 1/10W J 20k Ω	RRJ203RYL002
R892	RES CHIP 1608 1/10W J 20k Ω	RRJ203RYL002
R893	RES CHIP 1608 1/10W J 22k Ω	RRJ223RYL002
R901	RES CHIP 1608 1/10W J 91 Ω	RRJ910RYL002
R902	RES CHIP 1608 1/10W J 91 Ω	RRJ910RYL002
R903	RES CHIP 1608 1/10W J 91 Ω	RRJ910RYL002
R904	RES CHIP 1608 1/10W J 1.3k Ω	RRJ132RYL002
R905	RES CHIP 1608 1/10W J 1.3k Ω	RRJ132RYL002
R906	RES CHIP 1608 1/10W J 100 Ω	RRJ101RYL002
R909	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
R910	RES CHIP(1608) 1/10W J 0.30 Ω	RRXAR30HH007
R911	RES CHIP(1608) 1/10W J 0.30 Ω	RRXAR30HH007
R912	RES CARBON FILM T 1/4W J 1.0k Ω	RCX4102T1001
R913	RES. CARBON FILM J 1/2W J 3.3 Ω	RCX23R3T1003
R914	RES. CARBON FILM J 1/2W J 2.7 Ω	RCX22R7T1003
R915	RES CARBON FILM T 1/4W J 10k Ω	RCX4103T1001
R916	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002
R917	RES CARBON FILM T 1/4W J 390 Ω	RCX4391T1001
R918	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002
R919	RES CARBON FILM T 1/4W J 150 Ω	RCX4151T1001
R920	RES CARBON FILM T 1/4W G 3.3k Ω	RCX4332T1002
R921	RES CARBON FILM T 1/4W G 10k Ω	RCX4103T1002
R922	RES CARBON FILM T 1/4W J 22 Ω	RCX4220T1001
R923	RES CARBON FILM T 1/4W J 220 Ω	RCX4221T1001
R924	RES CARBON FILM T 1/4W J 3.9 Ω	RCX43R9T1001
R925	RES CARBON FILM T 1/4W J 3.9 Ω	RCX43R9T1001
R926	RES CARBON FILM T 1/4W J 470 Ω	RCX4471T1001
R927	RES CARBON FILM T 1/4W J 10 Ω	RCX4100T1001
R928	RES CARBON FILM T 1/4W J 180 Ω	RCX4181T1001
R929	RES CARBON FILM T 1/4W J 1.2 Ω	RCX41R2T1001
R951	RES CHIP 1608 1/10W J 100 Ω	RRJ101RYL002
R952	RES CHIP 1608 1/10W J 100 Ω	RRJ101RYL002
R953	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002

Ref. No.	Description	Part No.
R954	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R955	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R956	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R957	RES CHIP 1608 1/10W J 39k Ω	RRJ393RYL002
R958	RES CHIP 1608 1/10W J 39k Ω	RRJ393RYL002
R959	RES CHIP 1608 1/10W J 12k Ω	RRJ123RYL002
R960	RES CHIP 1608 1/10W J 12k Ω	RRJ123RYL002
MISCELLANEOUS		
AC601▲	AC CORD W/O A GND WIRE UL/CSA 1770 NO BLACK	WAC0172LW022
B11	POW HEAT SINK A7120UH	1EM423993
BC301	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
BC601	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC801	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC802	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC803	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC804	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC805	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC841	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
CL701	WIRE ASSEMBLY 9P 9PIN/170MM	WX1A94F0-002
F601▲	FUSE STC4A125V U/CT	PAGE20CW3402
FH601	FUSE HOLDER MSF-015 LF (B110)	XH01Z00LY002
FH602	FUSE HOLDER MSF-015 LF (B110)	XH01Z00LY002
JK721	JACK RCA PCB S WHITE 01/RCA-101H(WH)	JXRJ010YUQ02
JK722	JACK RCA PCB S RED 01/RCA-101H(RD)	JXRJ010YUQ01
JK731	JACK RCA PCB S GREEN 01/RCA-101H(GN)	JXRJ010YUQ03
JK732	JACK RCA PCB S BLUE 01/RCA-101H(BL)	JXRJ010YUQ04
JK733	JACK RCA PCB S RED 01/RCA-101H(RD)	JXRJ010YUQ01
JK741	JACK RCA PCB S WHITE 01/RCA-101H(WH)	JXRJ010YUQ02
JK742	JACK SW RCA PCB S RED RCA-102H(RD)	JYRJ010YUQ03
JK841	JACK RCA PCB S ORANGE 01/RCA-101H(OR)	JXRJ010YUQ06
JK871	JACK RCA PCB S WHITE 01/RCA-101H(WH)	JXRJ010YUQ02
JK872	JACK RCA PCB S RED 01/RCA-101H(RD)	JXRJ010YUQ01
JS101	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
JS202	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
JS302	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
JS303	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
JS304	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
JS631	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
L3	SCREW B-TIGHT D3X8 BIND HEAD+	GBJB3080
SA601▲	SURGE ABSORBER 470V+10PER	NVQZ10D471KB
T601▲	TRANS POWER BCK-28-9932	LTT2PC0XB043
TM601	EYELET TYPE D-1	OVM406868
TM602	EYELET TYPE D-1	OVM406868
TU301	TUNER UNIT ATSC TDAU4-D05A	UTNATS0AL002

JACK CBA

Ref. No.	Description	Part No.
	JACK CBA Consists of the following:	-----
CAPACITORS		
C751	CHIP CERAMIC CAP:(1608) CH J 100pF/50V	CHD1JJ3CH101
C752	CHIP CERAMIC CAP:(1608) CH J 100pF/50V	CHD1JJ3CH101
C753	CHIP CERAMIC CAP:(1608) CH J 100pF/50V	CHD1JJ3CH101
C754	RES CHIP 1608 1/10W 0 Ω	RRZ000RYL002
C755	RES CHIP 1608 1/10W 0 Ω	RRZ000RYL002
C756	RES CHIP 1608 1/10W 0 Ω	RRZ000RYL002
C757	CHIP CERAMIC CAP:(1608) B K 2.2 μ F/10V	CHD1AK30B225
C758	CHIP CERAMIC CAP:(1608) B K 2.2 μ F/10V	CHD1AK30B225
RESISTORS		
R751	RES CHIP 1608 1/10W J 75 Ω	RRJ750RYL002
R752	RES CHIP 1608 1/10W J 75 Ω	RRJ750RYL002

Ref. No.	Description	Part No.
R753	RES CHIP 1608 1/10W J 75 Ω	RRJ750RYL002
R756	RES CHIP 1608 1/10W J 100 Ω	RRJ101RYL002
R757	RES CHIP 1608 1/10W J 100 Ω	RRJ101RYL002
R758	RES CHIP 1608 1/10W J 100 Ω	RRJ101RYL002
R759	RES CHIP 1608 1/10W J 15k Ω	RRJ153RYL002
R760	RES CHIP 1608 1/10W J 15k Ω	RRJ153RYL002
R761	RES CHIP 1608 1/10W J 39k Ω	RRJ393RYL002
R762	RES CHIP 1608 1/10W J 39k Ω	RRJ393RYL002
MISCELLANEOUS		
JK751	JACK SW DIN PCB L DIN-435C(777D)	JYEL040YUQ03
JK752	JACK RCA PCB L RCA-101S(1)-03	JXRL010YUQ12
JK753	JACK RCA PCB L RCA-101S(1)-04	JXRL010YUQ13
JK754	JACK SW RCA PCB L RCA-102F(RD)	JYRL010YUQ05

INVERTER ASSEMBLY

Ref. No.	Description	Part No.
	INVERTER ASSEMBLY Consists of the following:	A1DF2M1V-001
	INVERTER CBA	A1DF2M1V-001-IV
	FUNCTION CBA IR SENSOR CBA	A1DF2M1V-001-FNIR

INVERTER CBA

Ref. No.	Description	Part No.
	INVERTER CBA Consists of the following:	-----
CAPACITORS		
C1001	CHIP CERAMIC CAP.(1608) B K 0.1 μ F/50V	CHD1JK30B104
C1002	CHIP CERAMIC CAP.(1608) B K 0.01 μ F/50V	CHD1JK30B103
C1003	CHIP CERAMIC CAP.(1608) B K 0.1 μ F/50V	CHD1JK30B104
C1004	CHIP CERAMIC CAP.(1608) B K 0.1 μ F/50V	CHD1JK30B104
C1005	CHIP CERAMIC CAP.(1608) B K 0.1 μ F/50V	CHD1JK30B104
C1006	CHIP CERAMIC CAP.(1608) B K 0.1 μ F/50V	CHD1JK30B104
C1007	CHIP CERAMIC CAP.(1608) B K 0.1 μ F/50V	CHD1JK30B104
C1008	CHIP CERAMIC CAP.(1608) B K 0.1 μ F/50V	CHD1JK30B104
C1009	ELECTROLYTIC CAP. 100 μ F/25V M	CE1EMASDL101
C1011	CHIP CERAMIC CAP.(1608) B K 0.1 μ F/50V	CHD1JK30B104
C1012	POLYESTER FILM CAP. (PB FREE) 0.0039 μ F/100V J	CA2A392DT018
C1013	CHIP CERAMIC CAP.(1608) B K 0.1 μ F/50V	CHD1JK30B104
C1014	CHIP CERAMIC CAP.(1608) B K 6800pF/50V	CHD1JK30B682
C1040	CHIP CERAMIC CAP.(1608) B K 0.47 μ F/10V	CHD1AK30B474
C1052	ELECTROLYTIC CAP 100 μ F/100V	CE2AMZNDL101
C1053	ELECTROLYTIC CAP 100 μ F/100V	CE2AMZNDL101
C1056	ELECTROLYTIC CAP 100 μ F/100V	CE2AMZNDL101
C1061	CAP CERAMIC HV 15pF/6.3KV/SL/J	CCA1500MR001
C1062	CAP CERAMIC (AX) 1500pF/50V/B/K	CA1J152TU061
C1063	ELECTROLYTIC CAP. 10 μ F/50V M	CE1JMASDL100
C1064	CHIP CERAMIC CAP.(1608) B K 0.01 μ F/50V	CHD1JK30B103
C1065	CAP CERAMIC HV 15pF/6.3KV/SL/J	CCA1500MR001
C1066	CAP CERAMIC (AX) 1500pF/50V/B/K	CA1J152TU061
C1067	ELECTROLYTIC CAP. 10 μ F/50V M	CE1JMASDL100
C1068	CHIP CERAMIC CAP.(1608) B K 0.01 μ F/50V	CHD1JK30B103
C1072	CHIP CERAMIC CAP.(1608) B K 0.1 μ F/50V	CHD1JK30B104
C1111	CAP CERAMIC HV 15pF/6.3KV/SL/J	CCA1500MR001
C1112	CAP CERAMIC (AX) 1500pF/50V/B/K	CA1J152TU061
C1113	ELECTROLYTIC CAP. 10 μ F/50V M	CE1JMASDL100
C1114	CHIP CERAMIC CAP.(1608) B K 0.01 μ F/50V	CHD1JK30B103
C1115	CAP CERAMIC HV 15pF/6.3KV/SL/J	CCA1500MR001
C1116	CAP CERAMIC (AX) 1500pF/50V/B/K	CA1J152TU061
C1117	ELECTROLYTIC CAP. 10 μ F/50V M	CE1JMASDL100

Ref. No.	Description	Part No.
C1118	CHIP CERAMIC CAP.(1608) B K 0.01 μ F/50V	CHD1JK30B103
C1122	CHIP CERAMIC CAP.(1608) B K 0.1 μ F/50V	CHD1JK30B104
C1161	CAP CERAMIC HV 15pF/6.3KV/SL/J	CCA1500MR001
C1162	CAP CERAMIC (AX) 1500pF/50V/B/K	CA1J152TU061
C1163	ELECTROLYTIC CAP. 10 μ F/50V M	CE1JMASDL100
C1164	CHIP CERAMIC CAP.(1608) B K 0.01 μ F/50V	CHD1JK30B103
C1165	CAP CERAMIC HV 15pF/6.3KV/SL/J	CCA1500MR001
C1166	CAP CERAMIC (AX) 1500pF/50V/B/K	CA1J152TU061
C1167	ELECTROLYTIC CAP. 10 μ F/50V M	CE1JMASDL100
C1168	CHIP CERAMIC CAP.(1608) B K 0.01 μ F/50V	CHD1JK30B103
C1172	CHIP CERAMIC CAP.(1608) B K 0.1 μ F/50V	CHD1JK30B104
C1211	CAP CERAMIC HV 15pF/6.3KV/SL/J	CCA1500MR001
C1212	CAP CERAMIC (AX) 1500pF/50V/B/K	CA1J152TU061
C1213	ELECTROLYTIC CAP. 10 μ F/50V M	CE1JMASDL100
C1214	CHIP CERAMIC CAP.(1608) B K 0.01 μ F/50V	CHD1JK30B103
C1215	CAP CERAMIC HV 15pF/6.3KV/SL/J	CCA1500MR001
C1216	CAP CERAMIC (AX) 1500pF/50V/B/K	CA1J152TU061
C1217	ELECTROLYTIC CAP. 10 μ F/50V M	CE1JMASDL100
C1218	CHIP CERAMIC CAP.(1608) B K 0.01 μ F/50V	CHD1JK30B103
C1222	CHIP CERAMIC CAP.(1608) B K 0.1 μ F/50V	CHD1JK30B104
C1500	CERAMIC CAP. 470pF/2KV	CA3D471PAN04
C1502	CHIP CERAMIC CAP.(1608) B K 0.01 μ F/50V	CHD1JK30B103
C1550	CERAMIC CAP. 470pF/2KV	CA3D471PAN04
C1552	CHIP CERAMIC CAP.(1608) B K 0.01 μ F/50V	CHD1JK30B103
C1600	CHIP CERAMIC CAP.(1608) B K 0.1 μ F/50V	CHD1JK30B104
C1620	CHIP CERAMIC CAP.(1608) CH J 1000pF/50V	CHD1JJ3CH102
C1702	CHIP CERAMIC CAP.(1608) F Z 0.22 μ F/50V	CHD1JZ30F224
C1703	CHIP CERAMIC CAP.(1608) F Z 0.22 μ F/50V	CHD1JZ30F224
C1800	ELECTROLYTIC CAP. 100 μ F/25V M	CE1EMASDL101
C1801	ELECTROLYTIC CAP. 22 μ F/35V M	CE1GMASDL220
C1802	CHIP CERAMIC CAP.(1608) B K 0.1 μ F/50V	CHD1JK30B104
C1905▲	SAFTY CAP. 2200pF/250V KX	CA2E222MR101
C1910	CAP ELECTROLYTIC 270 μ F/200V	CEA271DYG005
C1930	CERAMIC CAP. 820pF/2KV	CA3D821PAN04
C1931▲	POLYESTER FILM CAP. (PB FREE) 0.001 μ F/100V J	CA2A102DT018
C1932	POLYESTER FILM CAP. (PB FREE) 0.027 μ F/100V J	CA2A273DT018
C1933	POLYESTER FILM CAP. (PB FREE) 0.1 μ F/100V J	CA2A104DT018
C1970	POLYESTER FILM CAP. (PB FREE) 0.047 μ F/100V J	CA2A473DT018
C1981	CHIP CERAMIC CAP. F Z 0.01 μ F/50V	CHD1JZ30F103
C1982	ELECTROLYTIC CAP. 0.47 μ F/50V M	CE1JMASDLR47
C1990	CAP CERAMIC HV 820pF/1KV B K	CA3A821TE006
C1992▲	ELECTROLYTIC CAP 470 μ F/100V	CE2AMZNDL471
CONNECTORS		
CN1001	FFC CONNECTOR 15P IMSA-9615S-15A-PP-A	JC96J15ER007
CN1003	FFC CONNECTOR IMSA-9615S-11A-PP-A	JC96J11ER007
CN1050▲	CONNECTOR/JACK 1747386-1	JB17J02AP002
CN1100▲	CONNECTOR/JACK 1747386-1	JB17J02AP002
CN1150▲	CONNECTOR/JACK 1747386-1	JB17J02AP002
CN1200▲	CONNECTOR/JACK 1747386-1	JB17J02AP002
CN1900▲	CONNECTOR B2P3-VH(LF)(SN)	J3VH020JG001
DIODES		
D1000	DIODE ZENER 15BSB-T26	NDTB015BST26
D1001	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
D1003	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1004	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
D1005	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
D1006	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1040	DIODE ZENER 36BSB-T26	NDTB036BST26
D1060	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1061	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133

Ref. No.	Description	Part No.
D1062	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1063	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1064	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1065	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1066	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1067	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1068	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1069	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1070	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1071	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1072	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1073	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1074	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1110	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1111	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1112	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1113	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1114	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1115	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1116	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1117	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1118	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1119	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1120	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1121	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1122	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1123	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1124	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1160	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1161	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1162	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1163	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1164	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1165	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1166	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1167	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1168	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1169	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1170	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1171	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1172	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1173	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1174	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1210	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1211	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1212	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1213	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1214	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1215	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1216	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1217	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1218	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1219	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1220	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1221	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1222	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1223	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1224	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1500	DIODE ZENER 20BSB-T26	NDTB020BST26
D1550	DIODE ZENER 20BSB-T26	NDTB020BST26
D1630	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1700	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1701	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133

Ref. No.	Description	Part No.
D1702	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1703	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1801	DIODE ZENER 10BSB-T26	NDTB010BST26
D1802	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
D1930▲	DIODE ZENER 27BSB-T26	NDTB027BST26
D1931	DIODE ZENER 5V6BSB-T26	NDTB5R6BST26
D1932	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1933	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1934▲	DIODE ZENER 39BSB-T26	NDTB039BST26
D1970	DIODE ZENER 5V6BSB-T26	NDTB5R6BST26
D1971	DIODE ZENER HZS33NB2TE-EQ	QDTBH3S33NB2
D1972	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1973	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1990	DIODE FAST RECOVERY 31DF4-FC	QDWZ031DF4FC
D1994	DIODE ZENER 1ZB100BB	NDWZ001ZB100
ICS		
IC1000	IC PULSE-WIDTH-MODULATION CONT TL494CDR	NSCA0T0TY006
IC1700	IC BA10324AF-E2	QSZBA0TRM032
IC1930▲	PHOTO COUPLER LTV817MCF	NPECLTV817MF
IC1931▲	PHOTO COUPLER LTV817MCF	NPECLTV817MF
TRANSISTORS		
Q1001	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q1003	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q1004	TRANSISTOR KTA1267-GR-AT/P	NQS1KTA1267P
Q1005	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q1060	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q1061	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q1110	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q1111	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q1160	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q1161	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q1210	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q1211	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q1500	FET MOS 2SK2417(FT)	QFWZSK2417FT
Q1501	TRANSISTOR 2SC2120-Y(T2 F T)	QQSY2SC2120F
Q1502	TRANSISTOR 2SA950-O (TE2 F T)	QQS002SA950F
Q1503	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q1550	FET MOS 2SK2417(FT)	QFWZSK2417FT
Q1551	TRANSISTOR 2SC2120-Y(T2 F T)	QQSY2SC2120F
Q1552	TRANSISTOR 2SA950-O (TE2 F T)	QQS002SA950F
Q1553	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q1600	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q1621	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q1800	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q1801	TRANSISTOR KTA1267-GR-AT/P	NQS1KTA1267P
Q1802	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q1803	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q1804	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q1815	TRANSISTOR 2SA950-O (TE2 F T)	QQS002SA950F
Q1930▲	MOS FET TK8A50D	QFWZTK8A50DQ
Q1931▲	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q1932▲	TRANSISTOR 2SC2120-Y(T2 F T)	QQSY2SC2120F
Q1970	NPN TRANSISTOR KTC3200-GR-AT/P	NQSGKTC3200P
Q1971	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q1972	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
RESISTORS		
R1001	RES CHIP 1608 1/10W F 22.0k Ω	RTW2202HH008
R1002	RES CHIP 1608 1/10W F 1.00k Ω	RTW1001HH008
R1003	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R1004	RES CHIP 1608 1/10W 0 Ω	RRZ000RYL002
R1005	RES CARBON FILM T 1/4W J 220k Ω	RCX4224T1001
R1006	RES CARBON FILM T 1/4W J 56k Ω	RCX4563T1001

Ref. No.	Description	Part No.
R1007	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002
R1008	RES CHIP 1608 1/10W J 2.2k Ω	RRJ222RYL002
R1009	RES CHIP 1608 1/10W J 82k Ω	RRJ823RYL002
R1010	RES CHIP 1608 1/10W 0 Ω	RRZ000RYL002
R1011	RES CHIP 1608 1/10W F 10.0k Ω	RTW1002HH008
R1012	RES CHIP 1608 1/10W F 12.0k Ω	RTW1202HH008
R1013	RES CHIP 1608 1/10W 0 Ω	RRZ000RYL002
R1014	RES CHIP 1608 1/10W F 4.70k Ω	RTW4701HH008
R1015	RES CHIP 1608 1/10W F 7.50k Ω	RTW7501HH008
R1016	RES CHIP 1608 1/10W J 120k Ω	RRJ124RYL002
R1017	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002
R1018	RES CARBON FILM T 1/4W J 2.2k Ω	RCX4222T1001
R1019	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
R1021	RES CARBON FILM T 1/4W J 10k Ω	RCX4103T1001
R1022	RES CHIP 1608 1/10W F 2.20k Ω	RTW2201HH008
R1023	RES CHIP 1608 1/10W F 3.30k Ω	RTW3301HH008
R1024	RES CHIP 1608 1/10W F 100k Ω	RTW1003HH008
R1026	RES CHIP 1608 1/10W F 220 Ω	RTW2200HH008
R1028	RES CHIP 1608 1/10W F 36.0k Ω	RTW3602HH008
R1030	RES CHIP 1608 1/10W J 22k Ω	RRJ223RYL002
R1031	RES CHIP 1608 1/10W J 15k Ω	RRJ153RYL002
R1032	RES CARBON FILM T 1/4W J 24k Ω	RCX4243T1001
R1033	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002
R1034	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002
R1035	RES CARBON FILM T 1/4W J 3.3k Ω	RCX4332T1001
R1036	RES CARBON FILM T 1/4W J 10k Ω	RCX4103T1001
R1040	METAL OXIDE FILM RES. 2W J 0.39 Ω	RN02R39ZU001
R1041	RES CARBON FILM T 1/4W J 33k Ω	RCX4333T1001
R1043	RES CARBON FILM T 1/4W J 12k Ω	RCX4123T1001
R1044	METAL OXIDE FILM RES. 2W J 0.39 Ω	RN02R39ZU001
R1060	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R1061	RES CHIP 1608 1/10W J 20k Ω	RRJ203RYL002
R1062	RES CHIP 1608 1/10W J 390 Ω	RRJ391RYL002
R1063	RES CHIP 1608 1/10W F 18.0k Ω	RTW1802HH008
R1064	RES CHIP 1608 1/10W F 8.20k Ω	RTW8201HH008
R1065	RES CARBON FILM T 1/4W J 27k Ω	RCX4273T1001
R1066	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R1067	RES CHIP 1608 1/10W J 20k Ω	RRJ203RYL002
R1068	RES CHIP 1608 1/10W J 390 Ω	RRJ391RYL002
R1069	RES CHIP 1608 1/10W F 18.0k Ω	RTW1802HH008
R1070	RES CHIP 1608 1/10W F 8.20k Ω	RTW8201HH008
R1071	RES CARBON FILM T 1/4W J 27k Ω	RCX4273T1001
R1072	RES CHIP 1608 1/10W J 1M Ω	RRJ105RYL002
R1080	RES CHIP 1608 1/10W F 22.0k Ω	RTW2202HH008
R1081	RES CHIP 1608 1/10W J 5.6k Ω	RRJ562RYL002
R1110	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R1111	RES CHIP 1608 1/10W J 20k Ω	RRJ203RYL002
R1112	RES CHIP 1608 1/10W J 390 Ω	RRJ391RYL002
R1113	RES CHIP 1608 1/10W F 18.0k Ω	RTW1802HH008
R1114	RES CHIP 1608 1/10W F 8.20k Ω	RTW8201HH008
R1115	RES CARBON FILM T 1/4W J 27k Ω	RCX4273T1001
R1116	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R1117	RES CHIP 1608 1/10W J 20k Ω	RRJ203RYL002
R1118	RES CHIP 1608 1/10W J 390 Ω	RRJ391RYL002
R1119	RES CHIP 1608 1/10W F 18.0k Ω	RTW1802HH008
R1120	RES CHIP 1608 1/10W F 8.20k Ω	RTW8201HH008
R1121	RES CARBON FILM T 1/4W J 27k Ω	RCX4273T1001
R1122	RES CHIP 1608 1/10W J 1M Ω	RRJ105RYL002
R1160	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R1161	RES CHIP 1608 1/10W J 20k Ω	RRJ203RYL002
R1162	RES CHIP 1608 1/10W J 390 Ω	RRJ391RYL002
R1163	RES CHIP 1608 1/10W F 18.0k Ω	RTW1802HH008
R1164	RES CHIP 1608 1/10W F 8.20k Ω	RTW8201HH008

Ref. No.	Description	Part No.
R1165	RES CARBON FILM T 1/4W J 27k Ω	RCX4273T1001
R1166	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R1167	RES CHIP 1608 1/10W J 20k Ω	RRJ203RYL002
R1168	RES CHIP 1608 1/10W J 390 Ω	RRJ391RYL002
R1169	RES CHIP 1608 1/10W F 18.0k Ω	RTW1802HH008
R1170	RES CHIP 1608 1/10W F 8.20k Ω	RTW8201HH008
R1171	RES CARBON FILM T 1/4W J 27k Ω	RCX4273T1001
R1172	RES CHIP 1608 1/10W J 1M Ω	RRJ105RYL002
R1210	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R1211	RES CHIP 1608 1/10W J 20k Ω	RRJ203RYL002
R1212	RES CHIP 1608 1/10W J 390 Ω	RRJ391RYL002
R1213	RES CHIP 1608 1/10W F 18.0k Ω	RTW1802HH008
R1214	RES CHIP 1608 1/10W F 8.20k Ω	RTW8201HH008
R1215	RES CARBON FILM T 1/4W J 27k Ω	RCX4273T1001
R1216	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R1217	RES CHIP 1608 1/10W J 20k Ω	RRJ203RYL002
R1218	RES CHIP 1608 1/10W J 390 Ω	RRJ391RYL002
R1219	RES CHIP 1608 1/10W F 18.0k Ω	RTW1802HH008
R1220	RES CHIP 1608 1/10W F 8.20k Ω	RTW8201HH008
R1221	RES CARBON FILM T 1/4W J 27k Ω	RCX4273T1001
R1222	RES CHIP 1608 1/10W J 1M Ω	RRJ105RYL002
R1500	RES CHIP 1608 1/10W J 12k Ω	RRJ123RYL002
R1501	RES CARBON FILM T 1/4W J 10 Ω	RCX4100T1001
R1502	RES CARBON FILM T 1/4W J 150 Ω	RCX4151T1001
R1503	RES CARBON FILM T 1/4W J 2.2k Ω	RCX4222T1001
R1504	RES CARBON FILM T 1/4W J 2.2k Ω	RCX4222T1001
R1505	RES CHIP 1608 1/10W J 1k Ω	RRJ102RYL002
R1506	RES CHIP 1608 1/10W J 1k Ω	RRJ102RYL002
R1550	RES CARBON FILM T 1/4W J 12k Ω	RCX4123T1001
R1551	RES CARBON FILM T 1/4W J 10 Ω	RCX4100T1001
R1552	RES CARBON FILM T 1/4W J 150 Ω	RCX4151T1001
R1553	RES CARBON FILM T 1/4W J 2.2k Ω	RCX4222T1001
R1554	RES CARBON FILM T 1/4W J 2.2k Ω	RCX4222T1001
R1555	RES CHIP 1608 1/10W J 1k Ω	RRJ102RYL002
R1556	RES CHIP 1608 1/10W J 1k Ω	RRJ102RYL002
R1600	RES CHIP 1608 1/10W J 18k Ω	RRJ183RYL002
R1601	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002
R1620	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R1621	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002
R1630	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002
R1631	RES CHIP 1608 1/10W J 3.3k Ω	RRJ332RYL002
R1700	RES CHIP 1608 1/10W F 9.10k Ω	RTW9101HH008
R1701	RES CHIP 1608 1/10W F 1.00k Ω	RTW1001HH008
R1800	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002
R1801	RES CHIP 1608 1/10W J 22k Ω	RRJ223RYL002
R1802	RES CHIP 1608 1/10W J 22k Ω	RRJ223RYL002
R1803	RES CARBON FILM T 1/4W J 4.7k Ω	RCX4472T1001
R1804	RES CARBON FILM T 1/4W J 1.2 Ω	RCX41R2T1001
R1805	RES CARBON FILM T 1/4W J 1.0k Ω	RCX4102T1001
R1806	RES CHIP 1608 1/10W J 22k Ω	RRJ223RYL002
R1807	RES CHIP 1608 1/10W J 1k Ω	RRJ102RYL002
R1808	RES CHIP 1608 1/10W J 5.1k Ω	RRJ512RYL002
R1809	RES CHIP 1608 1/10W J 1.5k Ω	RRJ152RYL002
R1810	RES CARBON FILM T 1/4W J 4.7k Ω	RCX4472T1001
R1811	RES CARBON FILM T 1/4W J 100k Ω	RCX4104T1001
R1812	RES CARBON FILM T 1/4W J 12k Ω	RCX4123T1001
R1930	RES CARBON FILM T 1/4W J 47 Ω	RCX4470T1001
R1931	RES CARBON FILM T 1/4W J 47k Ω	RCX4473T1001
R1932	RES CARBON FILM T 1/4W J 82 Ω	RCX4820T1001
R1933	RES CARBON FILM T 1/4W J 82 Ω	RCX4820T1001
R1934	RES CARBON FILM T 1/4W J 180 Ω	RCX4181T1001
R1935	RES CARBON FILM T 1/4W J 1.5k Ω	RCX4152T1001
R1936	RES CARBON FILM T 1/4W J 180 Ω	RCX4181T1001

Ref. No.	Description	Part No.
R1937▲	METAL OXIDE FILM RES. 2W J 0.33 Ω	RN02R33ZU001
R1939	RES CARBON FILM T 1/4W J 2.2k Ω	RCX4222T1001
R1940	RES CARBON FILM T 1/4W J 220k Ω	RCX4224T1001
R1941	RES CARBON FILM T 1/4W J 220k Ω	RCX4224T1001
R1942	RES CARBON FILM T 1/4W J 120k Ω	RCX4124T1001
R1943	RES CARBON FILM 1/4W J 330k Ω	RCX4334FS002
R1944	RES CARBON FILM 1/4W J 330k Ω	RCX4334FS002
R1945	RES CARBON FILM 1/4W J 390k Ω	RCX4394FS002
R1967	RES CARBON FILM T 1/4W J 3.9k Ω	RCX4392T1001
R1968	RES CARBON FILM T 1/4W J 3.9k Ω	RCX4392T1001
R1969	RES CARBON FILM T 1/4W J 3.9k Ω	RCX4392T1001
R1970	RES CARBON FILM T 1/4W J 270 Ω	RCX4271T1001
R1971	RES CARBON FILM T 1/4W J 3.9k Ω	RCX4392T1001
R1972	RES CHIP 1608 1/10W J 68k Ω	RRJ683RYL002
R1973	RES CHIP 1608 1/10W J 22k Ω	RRJ223RYL002
R1975	RES CHIP 1608 1/10W F 30.0k Ω	RTW3002HH008
R1976	RES CHIP 1608 1/10W F 30.0k Ω	RTW3002HH008
R1977	RES CHIP 1608 1/10W F 27.0k Ω	RTW2702HH008
R1979	RES CHIP 1608 1/10W F 6.80k Ω	RTW6801HH008
R1980	RES CHIP 1608 1/10W F 360 Ω	RTW3600HH008
R1981	RES CHIP 1608 1/10W 0 Ω	RRZ000RYL002
R1982	RES CHIP 1608 1/10W J 2.7k Ω	RRJ272RYL002
R1983	RES CARBON FILM T 1/4W J 33k Ω	RCX4333T1001
R1984	RES CARBON FILM T 1/4W J 15k Ω	RCX4153T1001
R1986	RES CHIP 1608 1/10W J 1k Ω	RRJ102RYL002
R1987	RES CARBON FILM T 1/4W J 820k Ω	RCX4824T1001
R1988	RES CARBON FILM T 1/4W J 1.0k Ω	RCX4102T1001
R1989	RES CARBON FILM 1/4W J 330k Ω	RCX4334FS002
R1990	RES CARBON FILM 1/4W J 330k Ω	RCX4334FS002
R1991	RES CARBON FILM 1/4W J 330k Ω	RCX4334FS002
MISCELLANEOUS		
B13	HEAT SINK PNA A94FOUH	1EM428121
B14	HEAT SINK PNB ASSEMBLY A94FOUH	1EM428123
BC1301	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
BC1500	COIL BEADS CORE FBR07VA850TB-00	LLBF00ZTU020
BC1501	COIL BEADS CORE FBR07VA850TB-00	LLBF00ZTU020
BC1550	COIL BEADS CORE FBR07VA850TB-00	LLBF00ZTU020
BC1551	COIL BEADS CORE FBR07VA850TB-00	LLBF00ZTU020
BC1930	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC1931	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
L3	SCREW B-TIGHT D3X8 BIND HEAD+	GBJB3080
T1050▲	TRANS INVERTER HVT-153	LTZ3P20XB009
T1100▲	TRANS INVERTER HVT-153	LTZ3P20XB009
T1150▲	TRANS INVERTER HVT-153	LTZ3P20XB009
T1200▲	TRANS INVERTER HVT-153	LTZ3P20XB009
T1950▲	TRANS POWER BCK-35-0607	LIT3PC0XB048

FUNCTION CBA

Ref. No.	Description	Part No.
	FUNCTION CBA Consists of the following:	-----
CAPACITORS		
C108	CAP CERAMIC (AX) 0.1μF/50V/F/Z	CA1J104TU062
C151	CAP CERAMIC (AX) 0.1μF/50V/F/Z	CA1J104TU062
RESISTORS		
R108	RES CARBON FILM T 1/4W J 220 Ω	RCX4221T1001
R109	RES CARBON FILM T 1/4W G 10k Ω	RCX4103T1002
R111	RES CARBON FILM T 1/4W G 4.7k Ω	RCX4472T1002
R112	RES CARBON FILM T 1/4W G 2.7k Ω	RCX4272T1002
R113	RES CARBON FILM T 1/4W G 4.7k Ω	RCX4472T1002
R114	RES CARBON FILM T 1/4W G 8.2k Ω	RCX4822T1002
R115	RES CARBON FILM T 1/4W G 18k Ω	RCX4183T1002

Ref. No.	Description	Part No.
R151	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
R152	RES CARBON FILM T 1/4W G 10k Ω	RCX4103T1002
R153	RES CARBON FILM T 1/4W G 2.2k Ω	RCX4222T1002
R154	RES CARBON FILM T 1/4W G 2.2k Ω	RCX4222T1002
SWITCHES		
SW101A	TACT SWITCH SKHHLMA010	SST0101AL049
SW103A	TACT SWITCH SKHHLMA010	SST0101AL049
SW104A	TACT SWITCH SKHHLMA010	SST0101AL049
SW105A	TACT SWITCH SKHHLMA010	SST0101AL049
SW106A	TACT SWITCH SKHHLMA010	SST0101AL049
SW107A	TACT SWITCH SKHHLMA010	SST0101AL049
SW151	TACT SWITCH SKHHLMA010	SST0101AL049
SW152	TACT SWITCH SKHHLMA010	SST0101AL049
SW153	TACT SWITCH SKHHLMA010	SST0101AL049

IR SENSOR CBA

Ref. No.	Description	Part No.
	IR SENSOR CBA Consists of the following:	-----
CAPACITORS		
C113	ELECTROLYTIC CAP. 47μF/16V M H7	CE1CMAVSL470
C115	CHIP CERAMIC CAP. CH J 330pF/50V	CHD1JJ3CH331
DIODES		
D104	LED GREEN 333GT/E(FNA)	NPWZ33GTEFNA
D105	LED L-53HT	NP4Z000L53HT
D106	LED (YELLOW) LTL-307Y	NPWZ0LTL307Y
RESISTORS		
R123	RES CARBON FILM T 1/4W J 220 Ω	RCX4221T1001
R124	RES CARBON FILM T 1/4W J 220 Ω	RCX4221T1001
R125	RES CHIP 1608 1/10W J 220 Ω	RRJ221RYL002
R126	RES CHIP 1608 1/10W J 1k Ω	RRJ102RYL002
R127	RES CARBON FILM T 1/4W J 3.3k Ω	RCX4332T1001
R128	RES CARBON FILM T 1/4W J 100 Ω	RCX4101T1001
MISCELLANEOUS		
CL101	WIRE ASSEMBLY 8P 8PIN/170MM	WX1A01F0-001
CL103	WIRE ASSEMBLY 4P 4PIN/250MM	WX1A94F0-003
RS102	SENSOR REMOTE RECEIVER KSM-712TH2E	USESJRSKK044

PARTS LIST [32MD301B/F7 (Serial No.: DS1)]

Mechanical Parts

PRODUCT SAFETY NOTE: Products marked with a  have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice in this service manual. Don't degrade the safety of the product through improper servicing.

NOTE: Parts that are not assigned part numbers (-----) are not available.

Different parts from the original model LD320SS2 (Serial No. : DS1)

Ref. No.	Description	Part No.
	STAND ASSEMBLY A9DF0UH	1ESA26285
A1	FRONT CABINET A94F0UH	1EM023405
A5	DECORATION PLATE A1DF0UH	1EM126434
A10 	RATING LABEL A1DF0UH	-----
L9	STAND SCREW KIT A1DA0UH	1ESA28845
S1	CARTON A1DF0UH	1EM435522
S9	STAND HOLD PAD A94F0UH	1EM023745
X2 	OWNERS MANUAL A1DA0UH	1EMN28219
X3	REMOTE CONTROL NF801UD 192/ ECNLC7D1/NF801UD	NF801UD
X4	DRY BATTERY R03/2S	XB0M451T0006
X6	QUICK START GUIDE A1DF0UH	1EMN28221
X10	REGISTRATION CARD (MAGNAVOX) A17N0UH	1EMN27759

Electrical Parts

PRODUCT SAFETY NOTE: Products marked with a  have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice in this service manual. Don't degrade the safety of the product through improper servicing.

NOTES:

1. Parts that are not assigned part numbers (-----) are not available.
2. Tolerance of Capacitors and Resistors are noted with the following symbols.

C..... $\pm 0.25\%$ D..... $\pm 0.5\%$ F..... $\pm 1\%$
G..... $\pm 2\%$ J..... $\pm 5\%$ K..... $\pm 10\%$
M..... $\pm 20\%$ N..... $\pm 30\%$ Z..... $+80/-20\%$

Different parts from the original model LD320SS2 (Serial No. : DS1)

Ref. No.	Description	Part No.
	DIGITAL MAIN CBA UNIT	A1DF0MMA-001
	DVD MAIN CBA UNIT	N7EX1KUP

		20110407	
		32MD311B/F7(A1DF4UH)(Serial No.: DS1)	
Different parts from the original model LD320SS2(DS1)			
Ref. No.		Description	Parts No.
MECHANICAL PARTS			
		STAND ASSEMBLY A9DF0UH	1ESA26285
A1		FRONT CABINET A1DF4UH	1EM028285
A2		Not used	
A3		FUNCTION KNOB A1DF1UH	1EM330937
A4		LED LENS A1DF1UH	1EM330657
A5		Not used	
A10!		RATING LABEL A1DF4UH	-----
A24		ENERGY STAR LABEL A91F2UH	-----
A42		ENERGY GUIDE LABEL A1DF4UH	-----
B30		LASER CAUTION LABEL A1DN2UH	-----
B55		SHIELD PLATE A1DF1UH	1EM330658
L9		STAND SCREW KIT A1DA0UH	1ESA28845
S1		CARTON A1DF4UH	1EM435925
S2		STYROFOAM TOP A1DF1UH	1EM027806
S3		STYROFOAM BOTTOM A1DF1UH	1EM027808
S4		SET BAG A17F6UH	1EM330877
S9		STAND HOLD PAD A94F0UH	1EM023745
X1		POLYETHYLENE BAG HDPE 180X340XT0.03	1EM435579
X2!		OWNERS MANUAL A1DA0UH	1EMN28219A
X3		REMOTE CONTROL NF801UD 192/ECNLC7D1/NF801UD	NF801UD
X4		DRY BATTERY R03/2S	XB0M451T0006
X6		QUICK START GUIDE A1DF0UH	1EMN28221
X10		REGISTRATION CARD (MAGNAVOX) A17N0UH	1EMN27759
ELECTRICAL PARTS			
		DIGITAL MAIN CBA UNIT	A1DF0MMA-001
		DVD MAIN CBA UNIT	N7EX1KUP

REVISION HISTORY

Chassis FL11.11

- 2011-01-21 LD320SS2 (Serial No. : DS1) added
- 2011-03-18 32MD301B/F7 (Serial No. : DS1) added
- TBD 32MD311B/F7 (Serial No. : DS1) added

COMPARISON LIST OF MODEL NAME

Chassis FL11.11

LD320SS2	(DS1)	A1DF2UH
32MD301B/F7	(DS1)	A1DF0UH
32MD311B/F7	(DS1)	A1DF4UH